New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Deferral Report Request Addendum
Solaris Water Midstream, LLC
Iceman SWD
Incident Number nAPP2305350943
Eddy County, New Mexico

To Whom It May Concern,

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Solaris Water Midstream (Solaris), is submitting a Deferral Report Request Addendum (DRRA) for the Iceman SWD (Site) to address an New Mexico Oil Conservation Division (NMOCD) denial response associated with a previously submitted Deferral Request, referenced by NMOCD application number 480965 (**Appendix A**). The Deferral Request was prepared by a third-party environmental consultant detailing completed corrective actions at the Site and was submitted to the NMOCD on July 2, 2026, and denied on August 12, 2026, for the following reasons:

> *"The Deferral Request is denied. Due to the sensitive nature of the release location and the site being located within high karst, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft2. Please do not ask for reclamation approval until the areas that have been requested for deferral have been addressed. Also, please do not ask for a deferral request and remediation closure approval at the same time. A remediation closure should not be requested until all deferred areas have been remediated at some time in the future. The work will need to be completed in 90 days after the report has been reviewed."*

The sections below address each item noted by NMOCD, specifically detailing Site Characterization updates that support the originally proposed Site Closure Criteria.

Karst Potential Determination

Based on the initial desktop review of the current BLM Carlsbad Field Office (CFO) karst potential map, this Site is located in a high potential karst area. As requested by the

NMOCD when pursuing a deviation from the most stringent closure criteria in a critical/high/medium karst potential occurrence zone, Solaris respectfully feels the obligation to verify that the Site where the subject releases occurred is not "unstable" has been met by subsequent aerial and geophysical electro-resistivity surveys. "Unstable area" as defined by 19.15.2 NMAC through 19.15.39 NMAC and more recently via the NMOCD Karst Public Notice is a "location that is susceptible to natural or human-induced events or forces capable of impairing the integrity of some or all a division-approved facility's structural components. Examples of unstable areas include areas with poor foundation conditions, areas susceptible to mass earth movements, and karst terrain where karst topography develops due to the dissolution of limestone, dolomite, or other soluble rock. Characteristic physiographic features of karst terrain include sinkholes, sinking streams, caves, large springs and blind valleys."

On January 27, 2026, Solaris retained Dave Decker, PhD, a BLM-approved karst contractor with Southwest Geophysical Consulting, LLC, to conduct an Environmental Karst Study (EKS) that included both aerial and geophysical assessments. The survey concluded:

- No surface karst features existed within 200 feet of the Site, and
- No shallow anomalies such as large voids or related karst features were detected within the survey area.

With no surface or subsurface karst features identified within proximity of the Site and in conjunction with an interpreted "flat-lying" stratigraphy beneath the Site, the Site was considered "stable" ground. The full report, recorded as Environmental Karst Study Report, is included in **Appendix B**.

Depth to Water Determination Boring

On September 9, 2024, James Hawley Drilling, LLC (H&R) (NMOSE Driller License Number: WD-1862) installed a boring to a total depth of 105 feet below ground surface (bgs). Following a 72-hour waiting period no water was present in the well boring. The boring was located at GPS coordinates (32.298543, -104.218359), which is located on the Site well pad. The drilling log is included in **Appendix C**.

Deferral Request

Solaris is requesting the deferral of the areas associated with SW-15, SW-16, SW-38, SW-39, and SW-46 due to the proximity of the wellhead and the injection pumps. The impacted soil was removed to the maximum extent practical. Remediation of impacted soil affected above the Closure Criteria remaining in-situ will be completed upon decommissioning and abandonment of the facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

Conclusion

Based on previously completed remediation efforts and the supporting documentation for the originally proposed Site Closure Criteria, including depth to groundwater confirmation is greater than 100 feet below ground surface and the "stable" Environmental Karst Survey Report results, Solaris respectfully requests the approval of this DRRA.

If you have any questions or comments, please contact Blake Estep at (432) 894-6038 or blake@etechenv.com.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Blake Estep
Senior Project Manager

cc: Matthew Green, Western Midstream
New Mexico Oil Conservation Division

Appendices:

Appendix A: Deferral Request (480965)

Appendix B: Environmental Karst Survey Report

Appendix C: Depth to Water Determination Soil Boring Log

APPENDIX A

Deferral Request

SITE INFORMATION

Report Type: Closure Report nAPP2305350943

General Site Information:						
Site:	**Iceman SWD**					
Company:	**Solaris Water Midstream, LLC**					
Section, Township and Range	**Unit M**	**Sec.17**	**T 23S**	**R 27E**		
Lease Number:						
County:	**Eddy County**					
GPS:	**32.29943°**			**-104.21855°**		
Surface Owner:	State					
Mineral Owner:						
Directions:	FROM THE INTER OF CHUCK WAGON RD & OLD CAVERN HIGHWAY TRAVEL S ON OLD CAVERN HIGHWAY 1.11MLS GO E 500 FT TO FIRST GPS ON THE RIGHT					

Release Data:	
Date Released:	2/21/2023
Type Release:	Produced Water
Source of Contamination:	Overflowed Storage Tank
Fluid Released:	1950 bbls water
Fluids Recovered:	1890 bbls water

Official Communication:			
Name:	Jeffery Cook		Clair Gonzales
Company:	Solaris Water, LLC		Tetra Tech
Address:	3305 Boyd Dr.		901 W. Wall St.
			Ste 100
City:	Carlsbad, New Mexico, 88220		Midland, Texas, 79701
Phone number:	(713) 614-3644		(432) 682-4559
Fax:			
Email:	Jeffery.Cook@ArisWater.com		clair.gonzales@tetratech.com

Site Characterization	
Depth to Groundwater:	*>105 ft bgs*
Karst Potential:	*Medium*

Recommended Remedial Action Levels (RRALs)				
Benzene	***Total BTEX***	***TPH (GRO+DRO)***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*1,000 mg/kg*	*1,000 mg/kg*	*20,000 mg/kg*

TETRA TECH

June 26, 2025

Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

RE: Closure Report
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico
nAPP2305350943

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Solaris Water Midstream, LLC (Solaris) to assess and remediate a release that occurred at the Iceman SWD, Unit M, Section 17, Township 23 South, Range 27 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.29943°, -104.21855°. The site location is shown on **Figures 1** and **2**.

Background

According to the State of New Mexico C-141 Initial Report, the release (nAPP2305350943) at the Iceman SWD was caused by an automated communication system failure due to cellular connectivity allowing a tank valve to remain open which caused overflow of the storage tank into the secondary containment, in addition to smaller leaks occurring, causing the release of 1,950 bbls of produced water. The release flowed onto the pad and the surrounding pasture, impacting an area of 502' in length and 385' in width. Additionally, a total of 1,890 bbls were recovered from the Site. The release was caused on February 21, 2023, and reported to the NMOCD on February 22, 2023. The C-141 is shown in **Appendix A**.

Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a medium karst area. The NFHL Map and USGS Mapper are shown in **Appendix B**

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundary, defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institutions, or churches located within the specified distances of the lateral extents of the release.

TETRA TECH

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the two closest water wells within a mile radius of the Site. The well reported on the USGS National Water Information System reports a total depth of 180 ft bgs with water level measured at 133.22 ft bgs and is approximately 0.63 miles of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 180 ft bgs and measured water level of 100 ft bgs and is approximately 0.54 miles of the Site. The groundwater information is shown in **Appendix B.**

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.54 Miles	08/14/1964	NMOSE	180’	100’
0.63 Miles	02/01/2018	USGS	180’	133.22’

Depth to Water Determination

On September 9, 2024, a Ground Water Determination Bore (GWDB) was installed on the pad to a total depth of 105 ft bgs by an external contractor James Hawley Drilling, LLC (H&R) (NMOSE Driller License Number: WD-1862). The well was left accessible for 72 hours after being drilled, and on September 12, 2024, Tetra tech investigated the bore via a water level meter and confirmed that no groundwater was present. The drill log and well plugging plan document is included in **Appendix B**. The Ground Water Determination Bore (GWDB) coordinates are 32.298543°, -104.218359° shown in **Figure 3**.

Biological Review

Tetra Tech conducted a review of sensitive biological species within the area of concern by utilizing the U.S. Fish & Wildlife Service Information for Planning and Consultation (USFWS IPaC) and the Bureau of Land Management (BLM) Plant and Wildlife Habitat mapping resource. Based on the review of the BLM Plant and Wildlife Habitat mapping resource, there are no potential habitats near the site, as indicated on the figure shown in **Appendix C**. Based on the review of the USFWS IPaC resource, there are no critical habitats for this location, however the following findings were noted:

Species Name	*Critical Habitat Designation Status*	*Does location overlap with Critical Habitat Designation*
Birds		
Mexican Spotted Owl	Final	No
Northern Aplomado Falcon	No Critical Habitat Designation	N/A
Piping Plover	Final	No
Clams		
Texas Hornshell	Proposed	No
Insects		
Monarch Butterfly	No Critical Habitat Designation	N/A
Flowering Plants		
Lee Pincushion Cactus	No Critical Habitat Designation	N/A
Sneed Pincusion Cactus	No Critical Habitat Designation	N/A

However, regardless of critical habitat designation, observation onsite will take place prior to and during remediation activities to prevent sensitive habitat and plant destruction. The BLM map is presented in **Appendix C**

Archaeological Survey

Necessary Cultural Properties Protection actions prior to reclamation have been conducted in accordance with 19.2.24 NMAC. The ARMS inspection included conducting research of the New Mexico Cultural Resources Information System (NMCRIS) and the ARMS. Following the completion of the ARMS Inspection, it was determined that an Archaeological Survey was not required. The NMSLO Cultural Resources Cover Sheet was submitted to the NMCRIS with the reference number A-20231114-000378 and is provided in **Appendix D**.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Additionally, based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally based on the site characterization the proposed RRAL for chloride is 600 mg/kg. Additionally, beyond 4.0 ft bgs the proposed RRAL for TPH is 1,000 mg/kg (GRO + DRO + ORO) and for chlorides is 20,000 mg/kg.

Site Assessment Activities

Initial Site Assessment Activities

Tetra Tech conducted the initial site assessment activities on December 15, 2023. A total of nine trenches (T-1 through T-9) were installed at depths ranging from surface to 6.0 ft bgs, to attempt to delineate the release area vertically. Deeper samples were not collected due to dense geological formation. Additionally, a total of seventeen (17) horizontals (H-1 through H-17) were installed to total depths of 0.5 ft bgs, to horizontally delineate the release. The release area and sample locations are shown in **Figure 3.**

The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, to be analyzed for TPH by method 8015 modified, BTEX by method 8-21B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix E.**

Referring to Table 1, Trenches (T-3, T-5, T-6, T-8, and T-9) indicated chloride concentrations above the reclamation standards, with concentrations ranging from 624 mg/kg to 16,000 mg/kg at depths ranging from surface to 4.0 ft bgs. The remaining Trenches (T-1, T-2, T-4, and T-7) indicated chloride concentrations below the reclamation standards. Trenches (T-3 and T-5) indicated TPH concentrations above reclamation standards, with concentrations ranging from 722 mg/kg to 734 mg/kg at depths of 2.0 ft bgs. The remaining Trenches (T-1, T-2, T-4, T-6 through T-9) indicated TPH concentration below the

reclamation standards. Additionally, all Trenches (T-1 through T-9) indicated benzene and BTEX concentrations below reclamation standards. Horizontal borings (H-1 through H-17) indicated benzene, BTEX, and chloride concentrations below reclamation standards. However, horizontal borings (H-6 and H-10) indicated TPH concentrations above reclamation standards, with concentrations ranging from 100 to 119 mg/kg at depths of 0.5 ft bgs. The remaining horizontal borings (H-1 through H-5, H-7 through H-9, and H-11 through H-17) indicated TPH concentrations below the reclamation standards.

Additional Site Assessment Activates

On September 9, 2024, a total of four (4) delineation boreholes (BH-1 through BH-4) were installed to total depths ranging from 5.0 ft to 9.0 ft bgs in areas of Trenches (T-3, T-6, T-8 and T-10) ,where refusal was encountered during the initial delineation assessment activities, in order to vertically delineate the impacted area fully. The sample locations are shown on **Figure 3**.

The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8-21B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in Table 1 and the analytical laboratory reports are included in **Appendix E**.

Referring to Table 1, delineation boreholes (BH-1 through BH-4) indicated benzene, BTEX, TPH, and chloride concentrations below remediation standards.

Remediation Activities

Tetra Tech was on site to supervise the remediation activities from November 21, 2024 through March 5, 2025. The areas of impact were remediated to depths ranging from 2.0 ft bgs to 4.0 ft bgs. The remediation areas and depths are shown on **Figures 4A through 4F**.

Following remediation activities, Tetra Tech conducted confirmation sampling, by collecting 5-point composite bottom holes and sidewalls every 200 square feet within the remediation. All samples were collected as composite die patterns to ensure a representative sample of the sidewalls and floor of the excavation were collected. Additionally, C-141N's were filed to give proper notification of sample collection per the "*Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions"* document released by the NMOCD on December 1, 2023. The C-141N's are presented in **Appendix A**. A total of three hundred-eleven (311) bottom holes (BH-1 through BH-311) were collected, and a total of one hundred-seven (107) sidewalls (SW-1 through SW-107) were collected to confirm full removal of the impacted soil. The confirmation soil samples are submitted to Eurofins Laboratories in Midland, Texas to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 and EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in the **Appendix E**.

Confirmation Resample

Hand auger soil borings were placed in the areas of two (2) backfilled areas (BH-11 and SW-63) to assess potential remaining TPH impact. Tetra Tech installed a total of five (5) hand auger soil borings in the 200 square foot area of bottom hole (BH-11) to total depths of 4.0 ft bgs, with samples collected at 4.0 ft bgs. Additionally, Tetra Tech installed a total of five (5) hand augers in the 200 square foot area of sidewall (SW-63) to total depths of 3.0 ft bgs, with samples collected at one (1) foot intervals. All of the samples collected at 4.0 ft bgs from the area of bottom hole (BH-11) were composited and the

composited sample was submitted to Eurofins Laboratories in Midland, Texas to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0. All of the samples from each depth of the 5 hand augers from the area of sidewall (SW-63) were composited, and the three (3) composited samples were submitted to Eurofins Laboratories in Midland, Texas to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0. The sample locations are shown on **Figure 6**.

Referring to **Table 2**, all composited hand auger soil boring samples from the areas of bottom hole (BH-11) and sidewall (SW-63) indicated benzene, BTEX, TPH, and chloride concentrations below reclamation standards. The previous TPH concentrations that were reported for bottom hole (BH-11) and sidewall (SW-63), on December 27, 2024 and January 30, 2025, respectively, may have naturally attenuated due to being exposed to sunlight and oxygen until the backfill activities proceeded in March of 2025. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in the **Appendix E**.

Deferral Request

Solaris requests a deferral of the area of the sidewalls (SW-15, SW-16, SW-38, SW-39, and SW-46). The chloride-impacted soil was removed to the maximum extent practical without compromising the integrity of the well head and flowline riser. Solaris requests a variance for the closure report, allowing the soil surrounding the wellhead and flowline riser to be held to the extended RRALS regardless of depth. The analytical results are summarized in **Table 2**, and the analytical laboratory report is included in **Appendix E**. The deferral request area is shown on **Figure 5**.

Referring to Table 2 all remaining final confirmation samples of soil within the top 4.0 ft indicated benzene, BTEX, TPH and chloride concentrations were below the reclamation standards. Additionally, all confirmation samples of soil beyond the top 4.0 ft indicate benzene, BTEX, TPH, and chloride concentrations below the RRALs, with the exception of the requested deferred areas around the well head and flowline riser.

Conclusion

Based on the C-141's (nAPP2305350943) and information provided by Solaris, Tetra Tech performed a site characterization and conducted groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, and the groundwater determination bore that was installed, the RRALs of 20,000 mg/kg for chlorides, 1,000 mg/kg for TPH (DRO + GRO), and 2,500 mg/kg for total TPH were followed for soil beyond the top 4.0 ft of soil. Additionally, the site followed the reclamation standards of 100 mg/kg for TPH and 600 mg/kg for chlorides for the top 4.0' of soil. Based on Tetra Tech assessment activities, laboratory results indicated chloride concentrations in trenches (T-3, T-5, T-6, T-8, and T-9) exceeded reclamation standards in the top 4.0 ft of soil and required remediation. The impacted areas were excavated to depths ranging from 2.0 ft bgs to 4.0 ft bgs, and the excavated soil was removed and disposed of at an approved New Mexico disposal facility.

TETRA TECH

Reseeding Information

Reseeding will be performed in June 2025 to coincide with the rainy season in Southeastern New Mexico and aid in revegetation. Based on the soils at the site, the NMSLO Seed Mixture (L) for Loamy Sites will be used and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator. The soils map and soil data are shown in **Appendix F**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,
TETRA TECH



Miguel Flores,
Project Manager



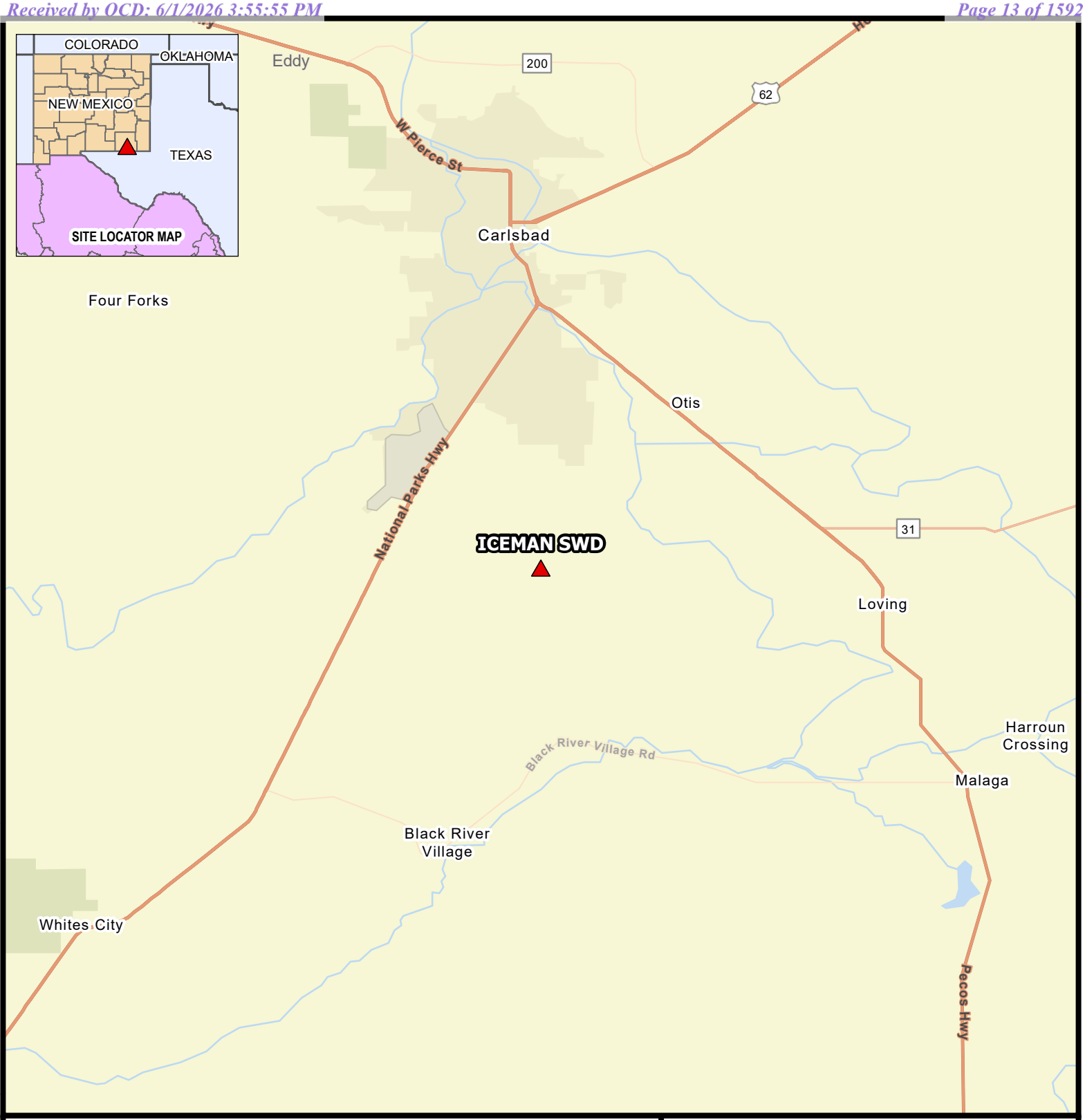
Brittany Long,
Project Manager



Clair Gonzales, P.G.
Midland Operations Manager

TETRA TECH

Figures



SITE LOCATION

N
W E
S

0 10,000 20,000
Approximate Scale in Feet

SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 1
SITE LOCATION MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085	
Date: 11/8/2024	
Name: Figure 1 - Iceman SWD	

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Source: ESRI World Streets 2022



SITE LOCATION

N
W E
S

0 1,000 2,000
Approximate Scale in Feet

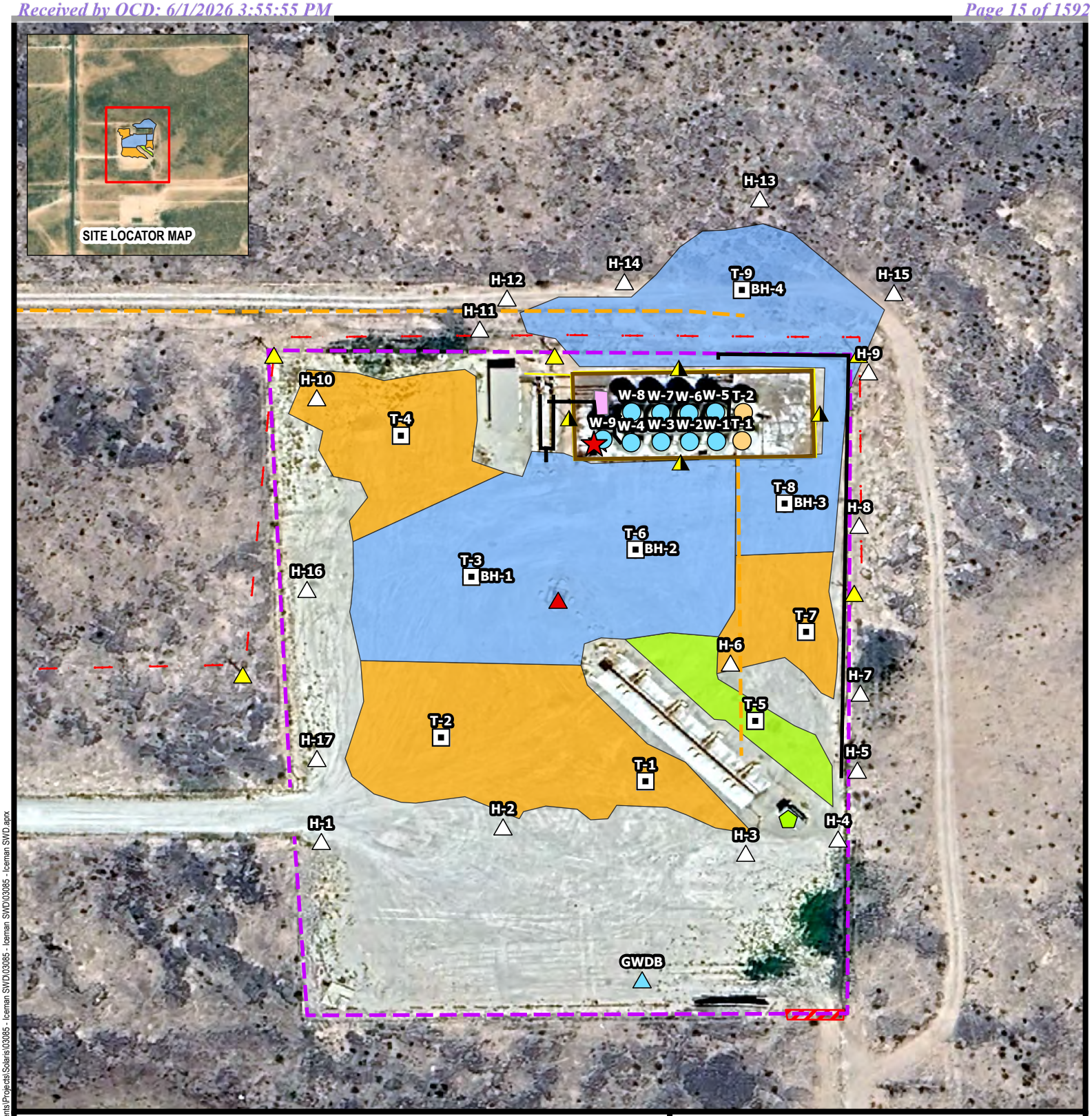
SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 2
TOPOGRAPHIC MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085	
Date: 11/8/2024	
Name: Figure 2 - Iceman SWD	

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Source: USGS Topographic Map



BOREHOLE SAMPLE LOCATION
TRENCH SAMPLE LOCATION
HORIZONTAL SAMPLE LOCATION
GWDB
RELEASE POINT
CHECK-IN OFFICE
ELECTRICAL POLE
ELECTRICAL POST WITH CABLES
WELL HEAD
WATER STORAGE TANK
OIL STORAGE TANK

BURIED CABLE/LINE
ELECTRIC CONDUIT
FENCE
LINED METAL BERM
OVERHEAD POWER CABLES
SURFACE LINES/POLYLINES
GATE NO LOCK
SKID CIRCULATORY PUMP

N
W
E
S

0 50 100
Approximate Scale in Feet

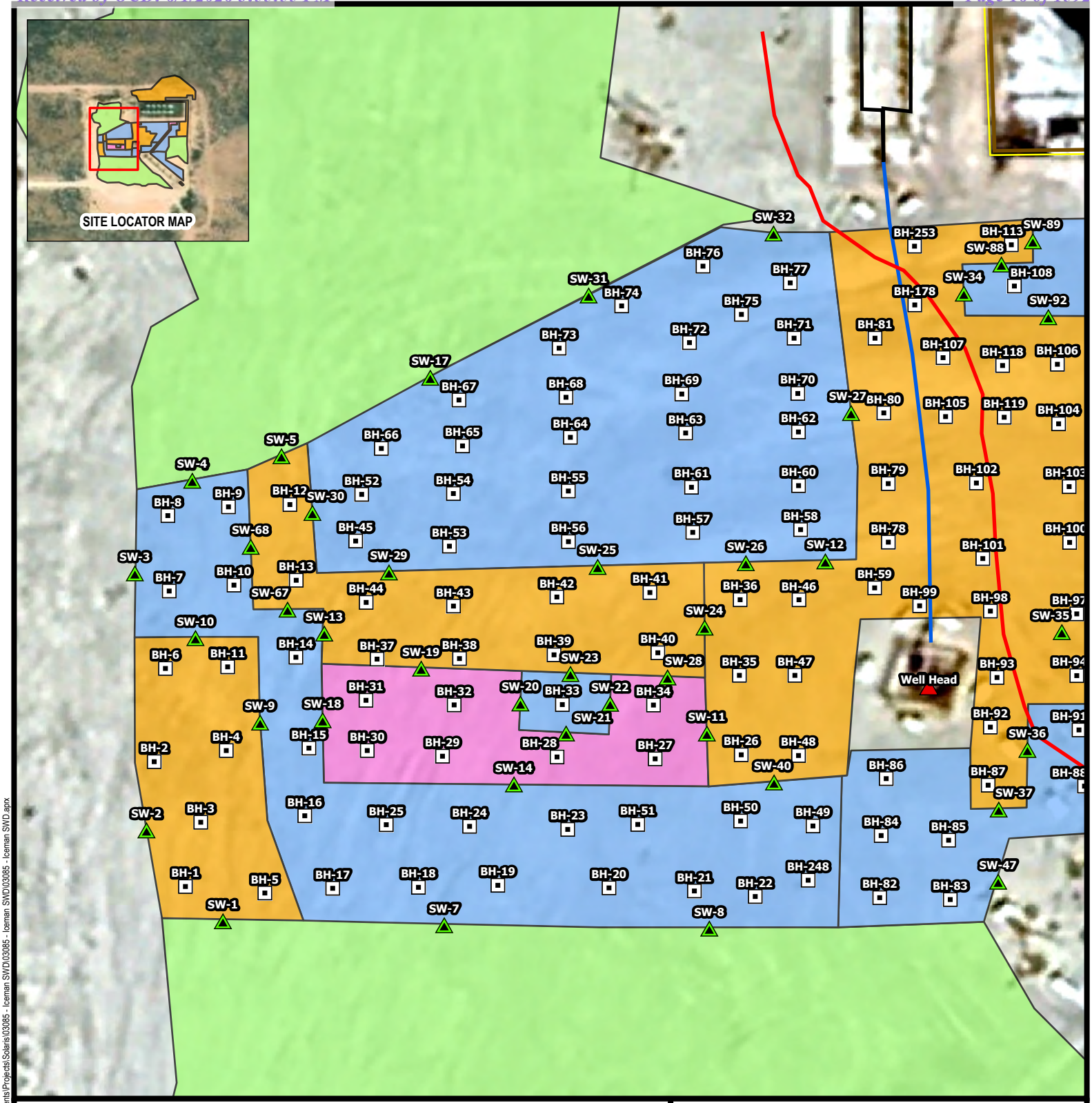
SOLARIS
OILFIELD INFRASTRUCTURE

FIGURE 3
SITE ASSESSMENT
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085	
Date: 4/2/2025	
Name: Figure 3 - Iceman SWD	

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Source: Google Earth, 2024

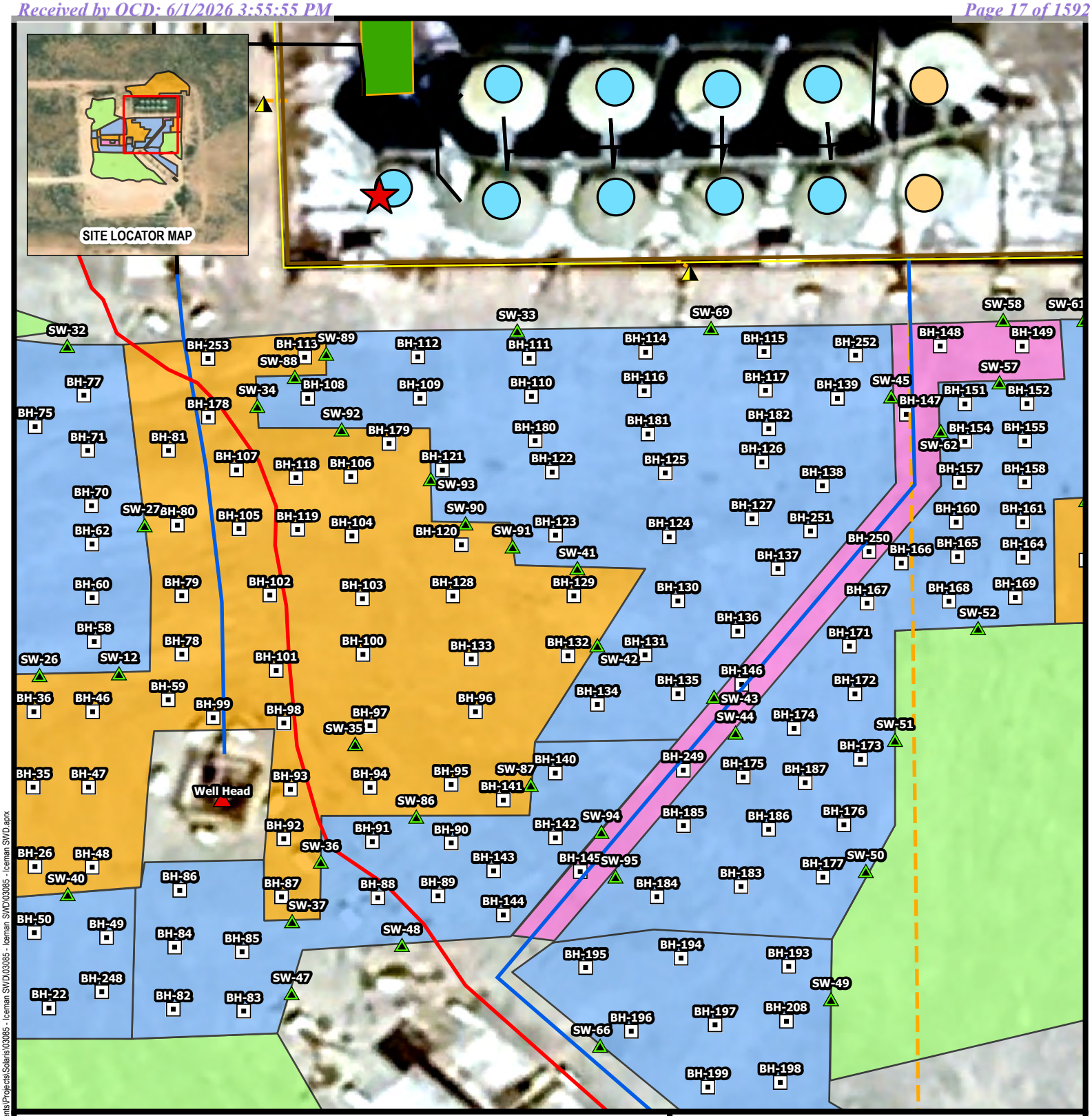


SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 4A
EXCAVATION DEPTH AND AREA MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085	
Date: 4/2/2025	
Name: Figure 4A - Iceman SWD	

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx



BOTTOMHOLE SAMPLE LOCATION
SIDEWALL SAMPLE LOCATION
RELEASE POINT
ELECTRICAL POST WITH CABLES
WELL HEAD
WATER STORAGE TANK
OIL STORAGE TANK
BURIED CABLE/LINE
BURIED FLOW LINE

ELECTRIC CONDUIT
LINED METAL BERM
SURFACE LINES/POLYLINES
UPL
SKID CIRCULATORY PUMP
SCRAPE 6 IN BGS
EXCAVATION 2.0 FT BGS
EXCAVATION 3.0 FT BGS
EXCAVATION 4.0 FT BGS

N
W
E
S

0 15 30
Approximate Scale in Feet

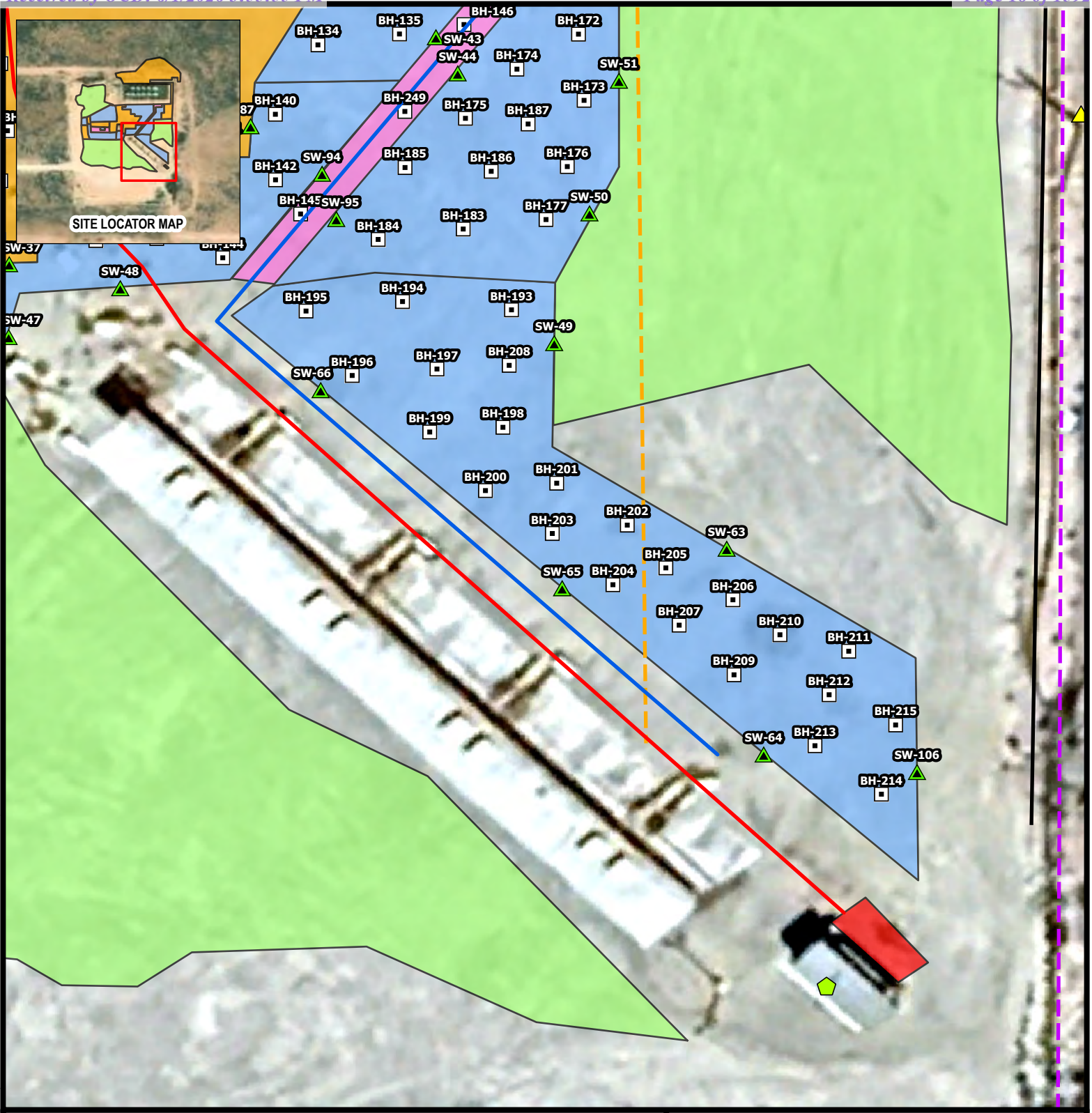
SOLARIS
OILFIELD INFRASTRUCTURE

FIGURE 4B
EXCAVATION DEPTH AND AREA MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085
Date: 4/2/2025
Name: Figure 4B - Iceman SWD

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Source Esri, Maxar, 2024



BOTTOMHOLE SAMPLE LOCATION
SIDEWALL SAMPLE LOCATION
CHECK-IN OFFICE
ELECTRICAL POLE
BURIED CABLE/LINE
BURIED FLOW LINE
FENCE

SURFACE LINES/POLYLINES
UPL
SCRAPE 6 IN BGS
EXCAVATION 2.0 FT BGS
EXCAVATION 3.0 FT BGS
EXCAVATION 4.0 FT BGS
BURIED ELECTRIC CONDUIT

N
W
E
S

0 15 30
Approximate Scale in Feet

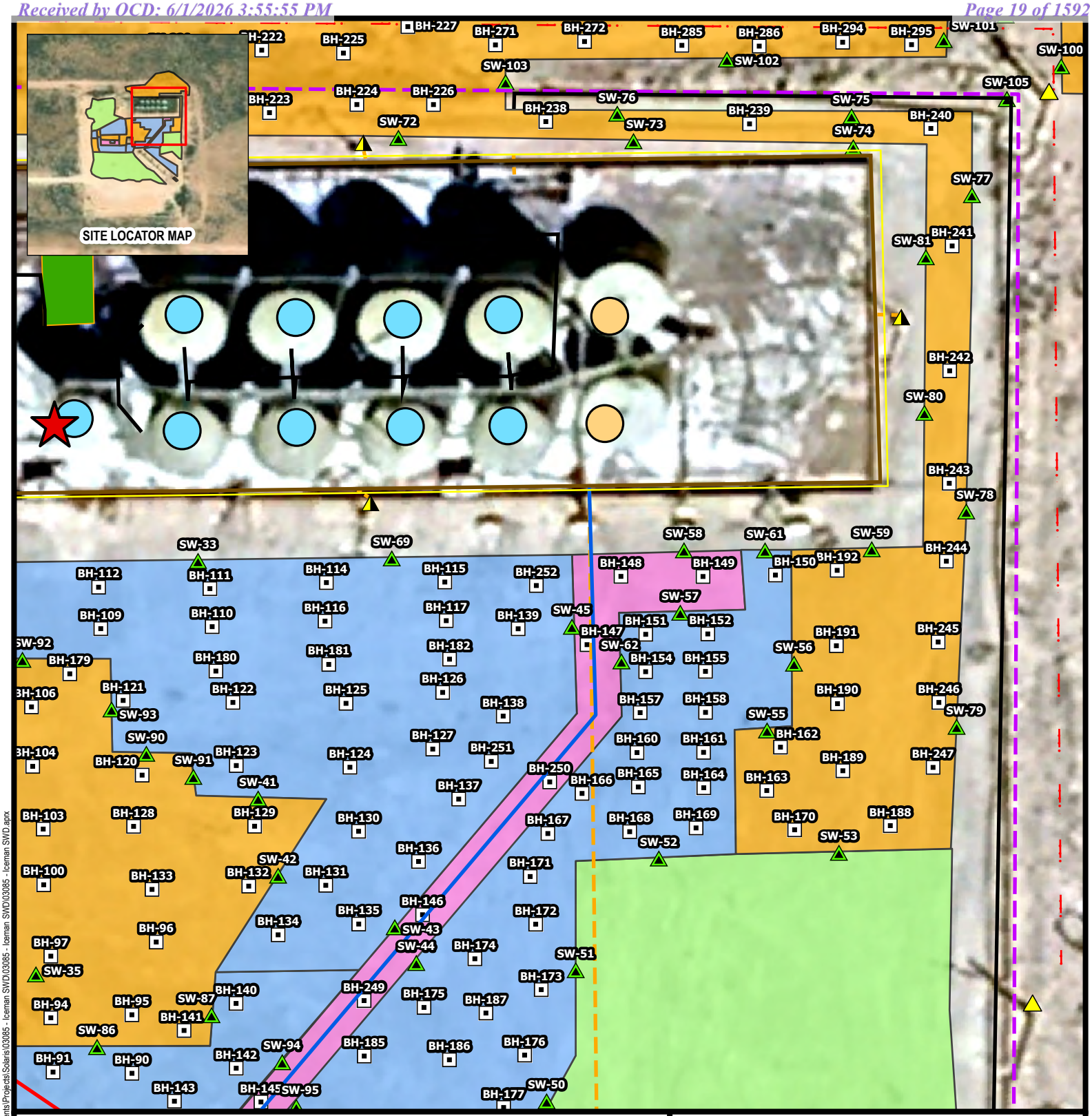
SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 4C
EXCAVATION DEPTH AND AREA MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085	
Date: 4/2/2025	
Name: Figure 4C - Iceman SWD	

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Spatial Coords Used: NAD...



BOTTOMHOLE SAMPLE LOCATION
SIDEWALL SAMPLE LOCATION
RELEASE POINT
ELECTRICAL POLE
ELECTRICAL POST WITH CABLES
WATER STORAGE TANK
OIL STORAGE TANK
BURIED CABLE/LINE
BURIED FLOW LINE
ELECTRIC CONDUIT

FENCE
LINED METAL BERM
OVERHEAD POWER CABLES
SURFACE LINES/POLYLINES
UPL
SKID CIRCULATORY PUMP
SCRAPE 6 IN BGS
EXCAVATION 2.0 FT BGS
EXCAVATION 3.0 FT BGS
EXCAVATION 4.0 FT BGS

N
W
E
S

0 15 30
Approximate Scale in Feet

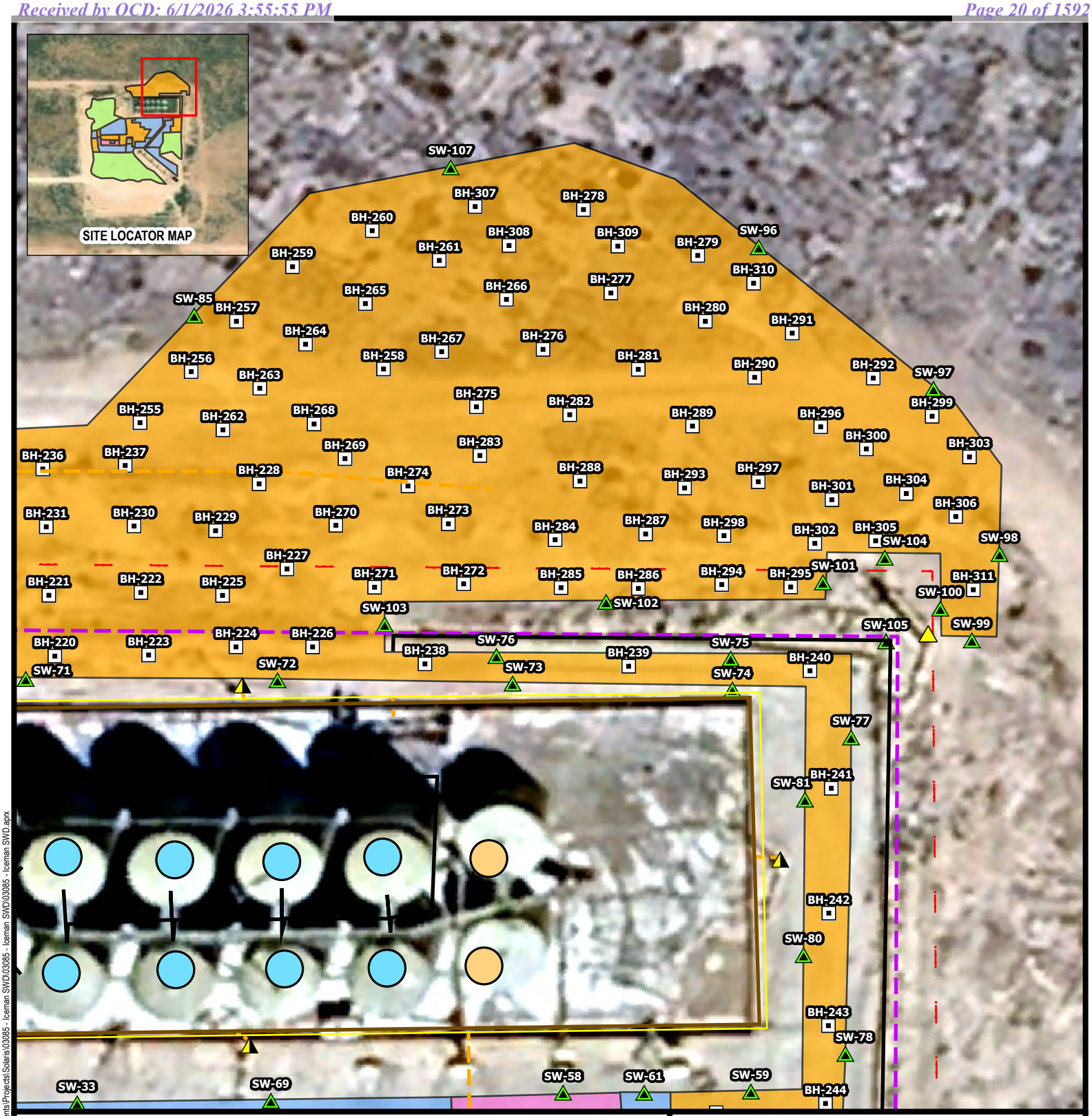
SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 4D
EXCAVATION DEPTH AND AREA MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085	
Date: 4/2/2025	
Name: Figure 4D - Iceman SWD	

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Source Esri, Maxar, Earthstar Geographics, and the GIS User Community



- BOTTOMHOLE SAMPLE LOCATION
- SIDEWALL SAMPLE LOCATION
- ELECTRICAL POLE
- ELECTRICAL POST WITH CABLES
- WATER STORAGE TANK
- OIL STORAGE TANK
- BURIED CABLE/LINE
- ELECTRIC CONDUIT
- FENCE
- LINED METAL BERM
- OVERHEAD POWER CABLES
- SURFACE LINES/POLYLINES
- GATE NO LOCK
- SKID CIRCULATORY PUMP
- SCRAPE 6 IN BGS
- EXCAVATION 2.0 FT BGS
- EXCAVATION 3.0 FT BGS
- EXCAVATION 4.0 FT BGS

N
W E
S

0 15 30
Approximate Scale in Feet

SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 4E
EXCAVATION DEPTH AND AREA MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085	
Date: 4/2/2025	
Name: Figure 4E - Iceman SWD	

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Spatial Reference: NAD 1983



BOTTOMHOLE SAMPLE LOCATION
SIDEWALL SAMPLE LOCATION
RELEASE POINT
ELECTRICAL POLE
ELECTRICAL POST WITH CABLES
WATER STORAGE TANK
OIL STORAGE TANK
BURIED CABLE/LINE
ELECTRIC CONDUIT

FENCE
LINED METAL BERM
OVERHEAD POWER CABLES
SURFACE LINES/POLYLINES
SKID CIRCULATORY PUMP
SCRAPE 6 IN BGS
EXCAVATION 2.0 FT BGS
EXCAVATION 3.0 FT BGS
EXCAVATION 4.0 FT BGS

N
W
E
S

0 15 30
Approximate Scale in Feet

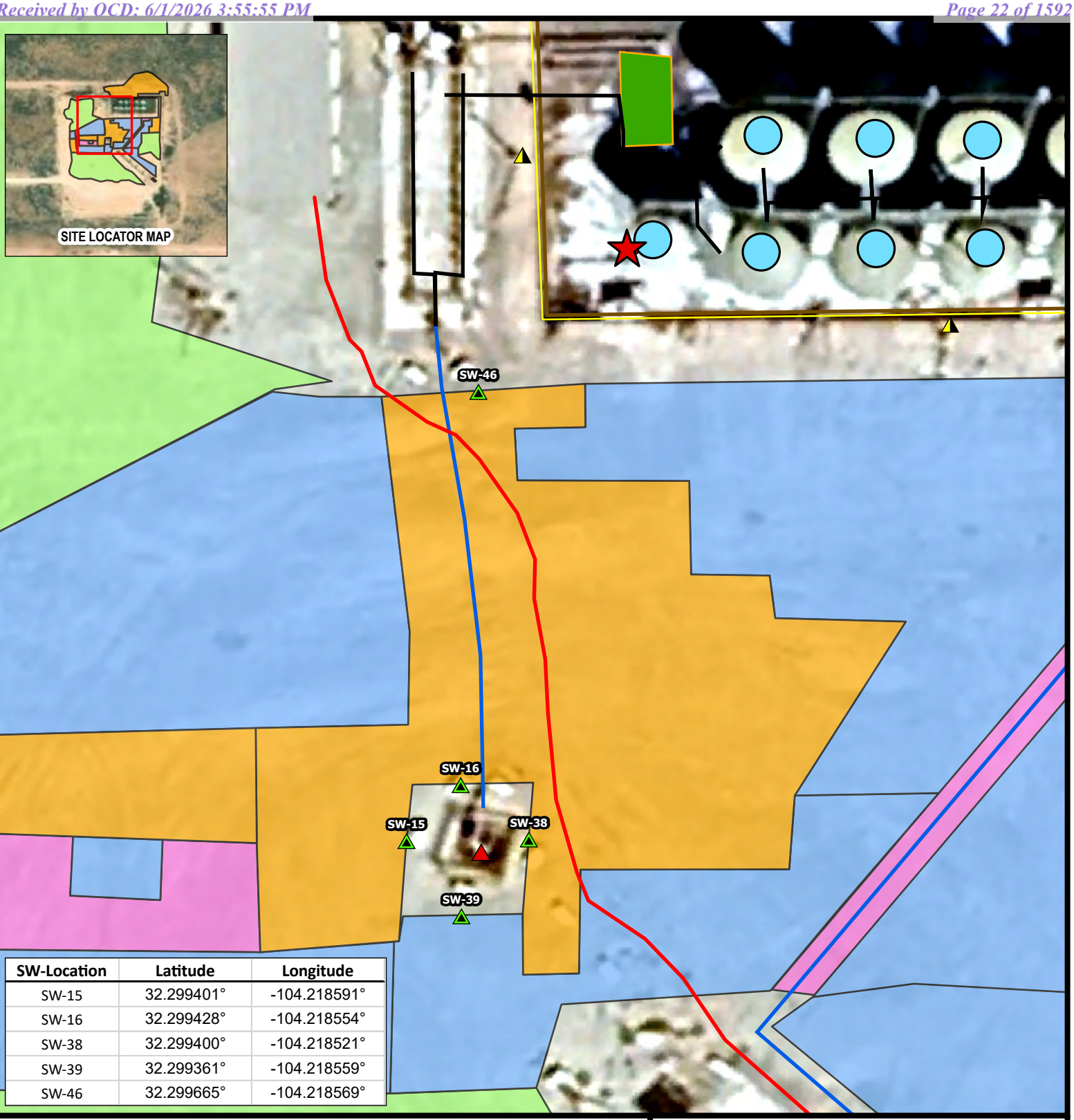
SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 4F
EXCAVATION DEPTH AND AREA MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085
Date: 4/2/2025
Name: Figure 4F - Iceman SWD

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Source Esri, Maxar, 2024



SW-Location	Latitude	Longitude
SW-15	32.299401°	-104.218591°
SW-16	32.299428°	-104.218554°
SW-38	32.299400°	-104.218521°
SW-39	32.299361°	-104.218559°
SW-46	32.299665°	-104.218569°

VARIANCE SAMPLE LOCATION
RELEASE POINT
ELECTRICAL POST WITH CABLES
WELL HEAD
WATER STORAGE TANK
BURIED FLOW LINE
ELECTRIC CONDUIT
LINED METAL BERM
SURFACE LINES/POLYLINES
UPL
SKID CIRCULATORY PUMP
SCRAPE 6 IN BGS
EXCAVATION 2.0 FT BGS
EXCAVATION 3.0 FT BGS
EXCAVATION 4.0 FT BGS

N
W
E
S

0 15 30
Approximate Scale in Feet

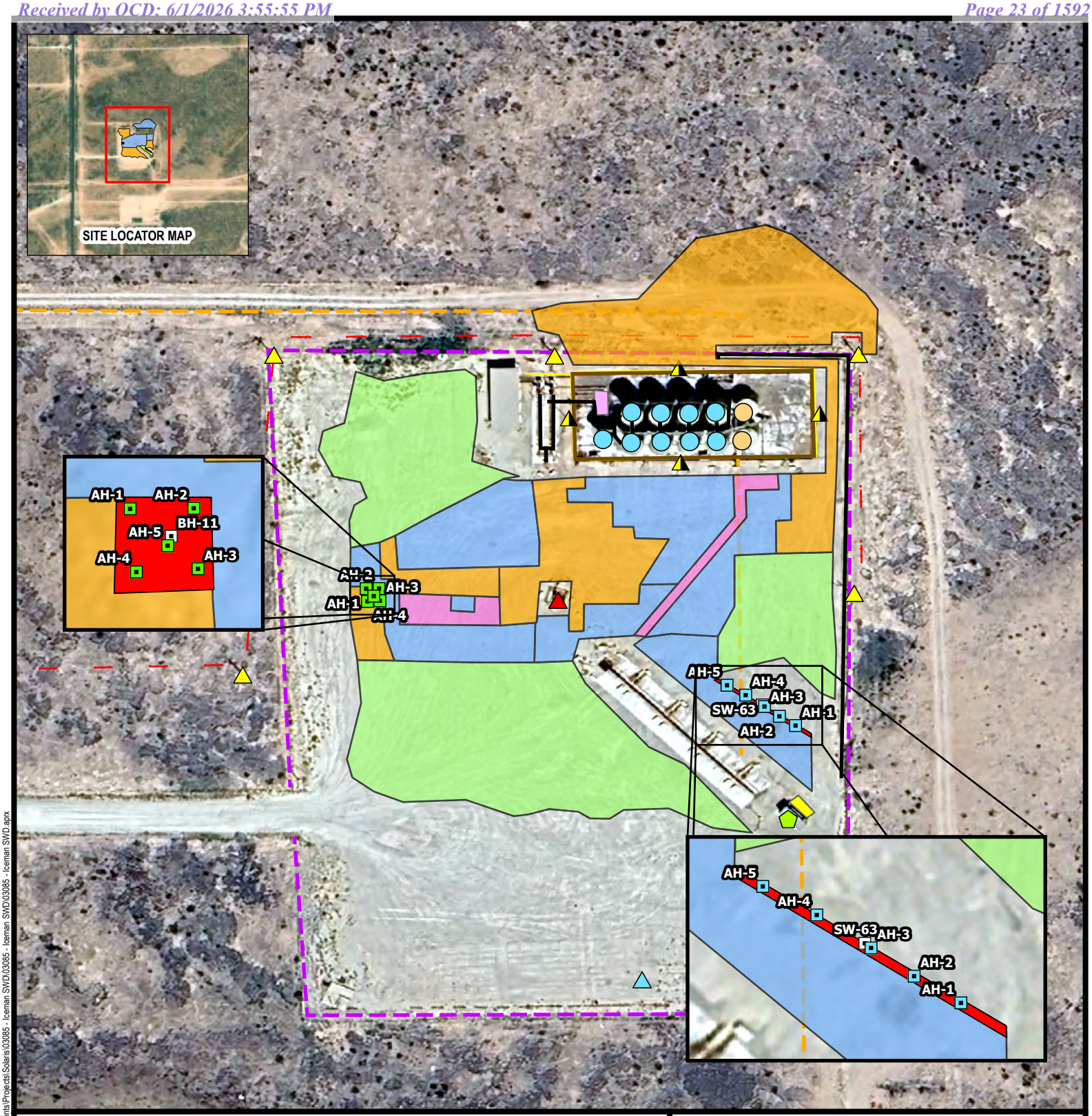
SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 5
DEFERRED SAMPLE POINTS
AND COORDINATES MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085
Date: 4/2/2025
Name: Figure 5 - Iceman SWD

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

Spatial Coords Used: 2014



SAMPLES (RETAKE)
AH LOCATIONS (BH-11)
AH LOCATIONS (SW-63)
GWDB
CHECK-IN OFFICE
ELECTRICAL POLE
ELECTRICAL POLE WITH CABLES
WELL HEAD
WATER STORAGE TANK
OIL STORAGE TANK
BURIED CABLE/LINE
ELECTRIC CONDUIT
FENCE

LINED METAL BERM
OVERHEAD POWER CABLES
SURFACE LINES/POLYLINES
GATE NO LOCK
SKID CIRCULATORY PUMP
WHITE FLAG AREA (200 SQR FT)
BURIED ELECTRIC CONDUIT
SCRAPE 6 IN BGS; SCRAPE 6 IN BGS
EXCAVATION 2.0 FT BGS
EXCAVATION 3.0 FT BGS
EXCAVATION 4.0 FT BGS
BURIED ELECTRIC CONDUIT

N
W
E
S

0 50 100
Approximate Scale in Feet

SOLARIS OILFIELD INFRASTRUCTURE

FIGURE 6
CONFIRMATION RESAMPLE MAP
ICEMAN SWD
EDDY COUNTY, NEW MEXICO
32.29943°, -104.21855°

Project: 212C-MD-03085
Date: 6/9/2025
Name: Figure 6 - Iceman SWD

Document Path: C:\Users\E.MORENOFLORES\OneDrive - Tetra Tech, Inc\Documents\Projects\Solaris\03085 - Iceman SWD\03085 - Iceman SWD.aprx

TETRA TECH

Tables

Table 1
Solaris Midstream
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
Trench-1	12/15/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.21	<0.050	<0.150	<0.300	48.0
	12/15/2023	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.125	<0.050	<0.150	<0.300	48.0
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.207	<0.050	<0.150	<0.300	256
	12/15/2023	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.237	<0.050	<0.150	<0.300	96.0
	12/15/2023	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.104	<0.050	<0.150	<0.300	32.0
Trench-2	12/15/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.067	<0.050	<0.150	<0.300	48.0
	12/15/2023	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.274	<0.050	<0.150	<0.300	64.0
Trench-3	12/15/2023	0-1	X	-	<10.0	24.4	<10.0	24.4	<0.050	0.329	<0.050	<0.150	0.329	**4,160**
	12/15/2023	2	X	-	<10.0	**535**	187	**722**	<0.050	0.56	<0.050	<0.150	0.56	**3,920**
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.224	<0.050	<0.150	<0.300	**816**
BH-1	9/9/2024	4	X	-	<10.0	**<10.0**	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
	9/9/2024	5	X	-	<10.0	**<10.0**	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
Trench-4	12/15/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.243	<0.050	<0.150	<0.300	112
	12/15/2023	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.287	<0.050	<0.150	<0.300	128
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.231	<0.050	<0.150	<0.300	128
	12/15/2023	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.1	<0.050	<0.150	<0.300	80.0
Trench-5	12/15/2023	0-1	X	-	<10.0	30.2	15.3	45.5	<0.050	0.124	<0.050	<0.150	<0.300	**1,630**
	12/15/2023	2	X	-	<10.0	**348**	**386**	**734**	<0.050	0.429	<0.050	<0.150	0.429	**784**
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.182	<0.050	<0.150	<0.300	384
	12/15/2023	4	X	-	<10.0	55.4	26.7	82.1	<0.050	0.224	<0.050	<0.150	<0.300	512
	12/15/2023	5	X	-	<10.0	165	114	279	<0.050	0.284	<0.050	<0.150	<0.300	816
	12/15/2023	6	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.086	<0.050	<0.150	<0.300	240
Trench-6	12/15/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.135	<0.050	<0.150	<0.300	**1,490**
	12/15/2023	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.147	<0.050	<0.150	<0.300	592
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.207	<0.050	<0.150	<0.300	**816**
BH-2	9/9/2024	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	9/9/2024	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Trench-7	12/15/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.161	<0.050	<0.150	<0.300	304
	12/15/2023	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.077	<0.050	<0.150	<0.300	416
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.219	<0.050	<0.150	<0.300	352
	12/15/2023	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.135	<0.050	<0.150	<0.300	96.0

Table 1
Solaris Midstream
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
Trench-8	12/15/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.207	<0.050	<0.150	<0.300	**624**
	12/15/2023	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.289	<0.050	<0.150	<0.300	**2,320**
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.411	<0.050	<0.150	0.411	**2,040**
	12/15/2023	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.208	<0.050	<0.150	<0.300	**912**
	12/15/2023	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.27	<0.050	<0.150	<0.300	1,300
BH-3	9/9/2024	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	9/9/2024	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	9/9/2024	6	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Trench-9	12/15/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.293	<0.050	<0.150	<0.300	**16,000**
	12/15/2023	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.172	<0.050	<0.150	<0.300	**4,240**
	12/15/2023	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.05	<0.050	<0.150	<0.300	**2,960**
	12/15/2023	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.107	<0.050	<0.150	<0.300	**3,280**
	12/15/2023	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.056	<0.050	<0.150	<0.300	3,760
BH-4	9/9/2024	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,800
	9/9/2024	5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,920
	9/9/2024	6	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,470
	9/9/2024	7	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	640
	9/9/2024	8	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
	9/9/2024	9	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
Horizontal Assessment														
H-1	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	49
H-2	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	40
H-3	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	52.7
H-4	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	45.1
H-5	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	56.0
H-6	7/24/2023	0-0.5	X	-	<10.0	63.7	54.9	**119**	<0.300	<0.050	<0.050	<0.150	<0.300	44.9
H-7	7/24/2023	0-0.5	X	-	<10.0	15.2	<10.0	15.2	<0.300	<0.050	<0.050	<0.150	<0.300	48.3
H-8	7/24/2023	0-0.5	X	-	<10.0	27.0	17.4	44.4	<0.300	<0.050	<0.050	<0.150	<0.300	45.1
H-9	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	53.7
H-10	7/24/2023	0-0.5	X	-	<10.0	54.7	45.2	**100**	<0.300	<0.050	<0.050	<0.150	<0.300	44.0
H-11	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	48.1
H-12	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	64.7
H-13	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	49.6
H-14	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	46.6
H-15	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	58.7
H-16	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	47.1

Table 1
Solaris Midstream
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
H-17	7/24/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.300	<0.050	<0.050	<0.150	<0.300	41.8

NOTES
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.
All screening values and results are presented in milligrams per kilogram (mg/kg)
Bolded cells represent a detected concentration above the respective screening value.
< = analyte was not detected above the respective sample detection limit
ft = feet below ground surface
(-) = not analyzed for respective constituent
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, xylene
Excavation Required

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
RRALs (Beyond Top 4.0' of Soil)						**1,000 mg/kg**		**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**20,000 mg/kg**
BH-1	12/2/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	179
BH-2	12/2/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,020
BH-3	12/2/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	209
BH-4	12/2/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	952
BH-5	12/2/2024	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	149
BH-6	12/6/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	375
BH-7	12/6/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	367
BH-8	12/6/2024	3.0	X	-	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	239
BH-9	12/6/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	257
BH-10	12/6/2024	3.0	X	-	<50.0	81.8	<50.0	81.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	392
BH-11	12/6/2024	3.0	-	X	<49.9	**253**	<49.9	**253**	<0.00198	<0.00198	<0.00198	0.00402	0.00402	589
	12/27/2024	4.0	X	-	<50.0	**1480**	<50.0	**1480**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	186
BH-11	4/25/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	91.7
BH-12	12/27/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	124
BH-13	12/2/2024	3.0	-	X	<50.0	**162**	<50.0	**162**	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	250
	12/27/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	290
BH-14	12/2/2024	3.0	X	-	<49.9	80.9	<49.9	80.9	<0.00200	<0.00200	<0.00200	0.0159	0.0159	153
BH-15	12/2/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	0.00261	0.00639	0.00900	71.1
BH-16	12/2/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	56.7
BH-17	12/6/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	0.0246	0.0246	253
BH-18	12/6/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	175
BH-19	12/6/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	134
BH-20	12/6/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	129
BH-21	12/6/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	140
BH-22	12/6/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	352
BH-23	12/6/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	198
BH-24	12/6/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	201
BH-25	12/6/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	269
BH-26	12/6/2024	2.0	-	X	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**652**
	12/27/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	518
BH-27	12/6/2024	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	399
BH-28	12/6/2024	2.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	485

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-29	12/6/2024	2.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	269
BH-30	12/6/2024	2.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	249
BH-31	12/6/2024	2.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	173
BH-32	12/6/2024	2.0	X	-	<49.9	53.5	<49.9	53.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	379
BH-33	12/27/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	412
BH-34	12/6/2024	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	594
BH-35	12/6/2024	2.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	539
BH-36	12/27/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	173
BH-37	12/6/2024	3.0	-	X	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**874**
	12/10/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	137
BH-38	12/10/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	317
BH-39	12/6/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	527
BH-40	12/6/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	446
BH-41	12/6/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	456
BH-42	12/6/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	501
BH-43	12/10/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	716
BH-44	12/10/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	228
BH-45	12/10/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	430
BH-46	12/6/2024	3.0	-	X	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**810**
	2/5/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	80.1
BH-47	12/6/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	485
BH-48	12/6/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	165
BH-49	12/6/2024	2.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	209
BH-50	12/6/2024	2.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	285
BH-51	12/6/2024	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	308
BH-52	12/10/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	127
BH-53	12/10/2024	3.0	-	X	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**1,010**
	1/2/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	514
BH-54	12/10/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	241
BH-55	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	218
BH-56	12/10/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	353
BH-57	12/6/2024	2.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	534
	12/10/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	451

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-58	12/6/2024	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	584
	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	269
BH-59	12/12/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,450
BH-60	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	370
BH-61	12/10/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	267
BH-62	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	366
BH-63	12/10/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	318
BH-64	12/10/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	269
BH-65	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	154
BH-66	12/10/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	232
BH-67	12/10/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	366
BH-68	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	156
BH-69	12/10/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	107
BH-70	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	224
BH-71	12/10/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	294
BH-72	12/10/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	117
BH-73	12/10/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	197
BH-74	12/10/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	250
BH-75	12/10/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	191
BH-76	12/10/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	329
BH-77	12/10/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	536

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-78	12/12/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,390
BH-79	12/12/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,520
BH-80	12/11/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,710
	12/27/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,710
BH-81	12/11/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,990
	12/27/2024	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,780
BH-82	12/11/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	93.1
BH-83	12/11/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	129
BH-84	12/11/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	173
BH-85	12/11/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	226
BH-86	12/11/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	538
BH-87	12/11/2024	3.0	-	X	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**749**
	1/31/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,030
BH-88	12/11/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	355
BH-89	12/11/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	228
BH-90	12/11/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	230
BH-91	12/11/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	436
BH-92	12/11/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	582
BH-93	12/11/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	523
BH-94	12/11/2024	3.0	-	X	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**682**
	1/31/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	84.7
BH-95	1/31/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	33.1
BH-96	1/30/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	30.2
BH-97	12/12/2024	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	324
BH-98	12/12/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	672
BH-99	12/12/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	954
BH-100	12/16/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	440
BH-101	1/30/2025	4.0	X	-	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,370
BH-102	12/16/2024	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,510
BH-103	1/30/2025	4.0	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	206
BH-104	1/30/2025	4.0	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	762
BH-105	12/16/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,310
BH-106	1/30/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.2

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-107	12/16/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	7,180
	12/27/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5,380
BH-108	12/12/2024	3.0	-	X	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**816**
	12/27/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,850
BH-109	1/30/2025	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	84.8
BH-110	12/12/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	113
BH-111	12/12/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	413
BH-112	12/12/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	263
BH-113	12/12/2024	3.0	-	X	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**766**
	1/31/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	78.1
BH-114	12/16/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	199
BH-115	12/16/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	229
BH-116	12/16/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	107
BH-117	12/16/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	72.1
BH-118	1/30/2025	4.0	X	-	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,350
BH-119	1/30/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	91.3
BH-120	1/31/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	92.3
BH-121	1/30/2025	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	192
BH-122	12/16/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	306

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-123	12/16/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	217
BH-124	12/16/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	177
BH-125	12/16/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	202
BH-126	12/16/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	141
BH-127	1/31/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	435
BH-128	12/16/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	422
BH-129	12/16/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	131
BH-130	12/16/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	213
BH-131	12/16/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	95.9
BH-132	12/16/2024	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	60.0
BH-133	12/16/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	132
BH-134	1/30/2025	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	338
BH-135	12/17/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	138
BH-136	12/17/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	114
BH-137	12/17/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	0.00677	<0.00398	0.00677	223
BH-138	12/17/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	268
BH-139	12/17/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	194
BH-140	12/17/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.3
BH-141	12/17/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	184
BH-142	12/17/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	112
BH-143	12/17/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	80.5
BH-144	12/17/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	486
BH-145	12/17/2024	2.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	465
BH-146	12/17/2024	2.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	239
BH-147	12/17/2024	2.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	321
BH-148	12/17/2024	2.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	202
BH-149	12/17/2024	2.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	281
BH-150	12/19/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	92.0

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-151	12/18/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	66.0
BH-152	12/18/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	179
BH-153	12/18/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	93.2
BH-153	12/18/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	160
BH-154	12/18/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	168
BH-155	12/18/2024	3.0	X	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	335
BH-156	12/18/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	143
BH-157	12/18/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	257
BH-158	12/18/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	306
BH-159	12/18/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	266
BH-160	12/18/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	302
BH-161	12/18/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	148
BH-162	1/30/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	239
BH-163	1/30/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	22.8
BH-164	12/18/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	162
BH-165	12/18/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	294
BH-166	12/19/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	345
BH-167	12/19/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	312
BH-168	12/18/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	391
BH-169	12/18/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	255
BH-170	12/19/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	113
BH-171	2/5/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.8
BH-172	2/5/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	656
BH-173	2/5/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	182
BH-174	2/5/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	199
BH-175	2/5/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	88.2
BH-176	2/5/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	279
BH-177	2/5/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	134
BH-178	12/27/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	111
BH-179	12/27/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	93.3
BH-180	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	151
BH-181	12/27/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	136

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-182	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	255
BH-183	2/5/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	49.8
BH-184	2/5/2025	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	103
BH-185	2/5/2025	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	25.5
BH-186	2/5/2025	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	74.3
BH-187	2/5/2025	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	58.5
BH-188	2/7/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	98.4
BH-189	2/7/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.5
BH-190	2/7/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	54.0
BH-191	2/7/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	25.5
BH-192	2/7/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	36.5
BH-193	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	210
BH-194	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	151
BH-195	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	117
BH-196	12/27/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	123
BH-197	12/27/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	111
BH-198	2/5/2025	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.0
BH-199	12/27/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	133
BH-200	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	147
BH-201	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	93.7
BH-202	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	234
BH-203	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	286
BH-204	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	154
BH-205	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	31.4
BH-206	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	99.7
BH-207	12/27/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	111
BH-208	12/27/2024	3.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	120
BH-209	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	124
BH-210	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	92.0
BH-211	12/27/2024	3.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	237
BH-212	12/27/2024	3.0	-	X	<50.0	**90.2**	<50.0	**90.2**	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	807
	2/5/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	36.4
BH-213	12/27/2024	3.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	176

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-214	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	178
BH-215	12/27/2024	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	139
BH-216	1/2/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	124
BH-217	1/2/2025	4.0	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,650
BH-218	1/2/2025	4.0	X	-	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	187
BH-219	1/2/2025	4.0	X	-	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	98.7
BH-220	1/2/2025	4.0	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	413
BH-221	1/2/2025	4.0	X	-	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	60.4
BH-222	1/2/2025	4.0	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	3,960
BH-223	1/2/2025	4.0	X	-	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,010
BH-224	1/2/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7,880
BH-225	1/2/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	9,790
BH-226	1/2/2025	4.0	X	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	7,100
BH-227	1/2/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,540
BH-228	2/12/2025	4.0	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	0.0912	0.0109	0.102	11,900
BH-229	1/2/2025	4.0	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	6,100
BH-230	1/2/2025	4.0	X	-	<49.5	<49.5	<49.5	<49.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	910
BH-231	1/2/2025	4.0	X	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	637
BH-232	1/2/2025	4.0	X	-	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	828
BH-233	1/2/2025	4.0	X	-	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	677
BH-234	1/2/2025	4.0	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	210
BH-235	1/2/2025	4.0	X	-	<49.5	<49.5	<49.5	<49.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	912
BH-236	1/2/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	319
BH-237	1/2/2025	4.0	X	-	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6,200
BH-238	1/2/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	205
BH-239	1/2/2025	4.0	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	172
BH-240	1/2/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	234
BH-241	1/2/2025	4.0	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	29.1
BH-242	1/2/2025	4.0	X	-	<50.4	<50.4	<50.4	<50.4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	30.1
BH-243	1/2/2025	4.0	X	-	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	75.8
BH-244	1/2/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	33.8
BH-245	1/2/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	54.5
BH-246	1/2/2025	4.0	X	-	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	49.7
BH-247	1/2/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	50.0
BH-248	2/5/2025	3.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	103

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-249	2/6/2025	2.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	117
BH-250	2/6/2025	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	168
BH-251	2/6/2025	2.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	87.6
BH-252	2/6/2025	2.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	100
BH-253	2/5/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6,710
BH-254	2/13/2025	4.0	X	-	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.3
BH-255	2/13/2025	4.0	X	-	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	17.6
BH-256	2/13/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	28.2
BH-257	2/13/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	238
BH-258	2/13/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,400
BH-259	2/18/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,240
BH-260	2/18/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,610
BH-261	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,610
BH-262	2/18/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,710
BH-263	2/18/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,700
BH-264	2/18/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,270
BH-265	2/18/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,160
BH-266	2/18/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	3,950
BH-267	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	5,310
BH-268	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	4,800
BH-269	2/18/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	4,180
BH-270	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,370
BH-271	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,260
BH-272	2/18/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	290
BH-273	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	469
BH-274	2/18/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	489
BH-275	2/18/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,770
BH-276	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	3,950
BH-277	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,360
BH-278	2/18/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	697
BH-279	2/18/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	64.7
BH-280	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,540

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BH-281	2/18/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,750
BH-282	2/18/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,210
BH-283	2/19/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,040
BH-284	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	991
BH-285	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	197
BH-286	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	432
BH-287	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,340
BH-288	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,760
BH-289	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,430
BH-290	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,620
BH-291	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,260
BH-292	2/19/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	451
BH-293	2/19/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5,390
BH-294	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	234
BH-295	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	287
BH-296	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,490
BH-297	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,410
BH-298	2/19/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,300
BH-299	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,530
BH-300	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,860
BH-301	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,850
BH-302	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,030
BH-303	2/19/2025	4.0	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,990
BH-304	2/19/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,980
BH-305	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,280
BH-306	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,060
BH-307	2/19/2025	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,140
BH-308	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,060
BH-309	2/19/2025	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,120
BH-310	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	81.2
BH-311	2/19/2025	4.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,030
SW-1	12/2/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	0.0115	0.0125	0.0240	87.9
SW-2	12/2/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	109

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
SW-3	12/2/2024	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	513
SW-4	12/27/2024	-	X		<49.7	52.6	<49.7	52.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	573
SW-5	12/27/2024	-	X	-	<50.0	77.4	<50.0	77.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	190
SW-6	12/12/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	375
SW-7	12/6/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	209
SW-8	12/12/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	410
SW-9	12/6/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	251
SW-10	12/6/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	81.4
SW-11	12/12/2024	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	392
SW-12	12/12/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	245
SW-13	12/27/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	143
SW-14	12/6/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	183
SW-15	1/3/2025	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**8,880**
SW-16	1/3/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**10,500**
SW-17	12/27/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	464
SW-18	12/27/2024	-	-	X	<50.1	**114**	<50.1	**114**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	586
	1/3/2025	-	-	X	<50.0	**103**	<50.0	**103**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	514
	1/30/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	214
SW-19	12/27/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	450
SW-20	12/27/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	499
SW-21	12/27/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	487
SW-22	12/27/2024	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	538
SW-23	12/27/2024	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	419
SW-24	12/27/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	187
SW-25	1/2/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	577
	1/30/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	463
SW-26	1/3/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	524
SW-27	12/27/2024	-	-	X	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**685**
	1/3/2025	-	X	-	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	295
SW-28	12/27/2024	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	395
SW-29	1/30/2025	-	X	-	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	23.0
SW-30	12/27/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	116
SW-31	12/10/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	290
SW-32	12/10/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	324

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
SW-33	12/16/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	383
SW-34	12/27/2024	-	-	X	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**609**
	1/31/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	68.7
SW-35	12/16/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	404
SW-36	1/31/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	228
SW-37	1/31/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	127
SW-38	1/3/2025	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**36,100**
SW-39	1/3/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**75,000**
SW-40	1/3/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	479
SW-41	12/27/2024	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	174
SW-42	12/16/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	234
SW-43	12/16/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	278
SW-44	12/20/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	257
SW-45	12/20/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	341
SW-46	1/3/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**42,700**
SW-47	1/30/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	462
SW-48	1/30/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	343
SW-49	1/30/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	62.5
SW-50	1/30/2025	-	-	X	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**718**
	2/5/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	157
SW-51	12/20/2024	-	X	-	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	254
SW-52	12/20/2024	-	X	-	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	508
SW-53	12/20/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	406
SW-54	2/6/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	88.2
SW-55	2/6/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.4
SW-56	2/6/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	35.4
SW-57	2/6/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	33.9
SW-58	2/6/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	131
SW-59	2/6/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	45.7
SW-60	2/12/2025	-	X	-	<49.8	73.1	<49.8	73.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	77.8
SW-61	2/12/2025	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	179
SW-62	2/12/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	177

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
SW-63	1/30/2025	-	-	X	<49.7	**113**	<49.7	**113**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	161
SW-63	5/1/2025	0-1.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	413
	5/1/2025	1.0-2.0	X	-	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	210
	5/1/2025	2.0-3.0	X	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	143
SW-64	1/30/2025	-	-	X	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**671**
	2/5/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	153
SW-65	1/30/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	229
SW-66	1/30/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	154
SW-67	12/27/2024	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	166
SW-68	12/27/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	312
SW-69	1/30/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	0.00212	<0.00398	<0.00398	266
SW-70	02/14/2025	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	0.103	0.0676	<0.0805	0.171	264
SW-71	2/12/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	116
SW-72	2/12/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	288
SW-73	2/12/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	359
SW-74	2/12/2025	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	161
SW-75	2/12/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	61.7
SW-76	2/12/2025	-	X	-	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	103
SW-77	1/2/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	36.0
SW-78	1/2/2025	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	93.9
SW-79	1/2/2025	-	X	-	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	84.9
SW-80	2/6/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	51.5
SW-81	2/13/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	0.00918	0.00918	131
SW-82	2/13/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	330
SW-83	2/13/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	16.8
SW-84	2/13/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.8
SW-85	2/13/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.0
SW-86	1/31/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	39.1
SW-87	1/31/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	100
SW-88	1/31/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.6
SW-89	1/31/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	78.3
SW-90	1/31/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	327
SW-91	1/31/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	356
SW-92	2/6/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	20.0
SW-93	2/6/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	271
SW-94	2/6/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	165

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

Table 2
Solaris Water Midstream, LLC
Iceman SWD
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs								**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**
SW-95	2/6/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	231
SW-96	2/13/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	225
SW-97	2/13/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	116
SW-98	2/13/2025	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	92.0
SW-99	2/18/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	329
SW-100	2/18/2025	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	331
SW-101	2/18/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	28.1
SW-102	2/18/2025	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	72.1
SW-103	2/18/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.6
SW-104	2/18/2025	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	182
SW-105	02/19/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	96.4
SW-106	2/12/2025	-	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	91.0
SW-107	02/19/2025	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	94.9

NOTES
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases.*
All screening values and results are presented in milligrams per kilogram (mg/kg)
Bolded cells represent a detected concentration above the respective screening value.
< = analyte was not detected above the respective sample detection limit
ft = feet below ground surface
(-) = not analyzed for respective constituent
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, xylene
Remediated
Deferral Request

TETRA TECH

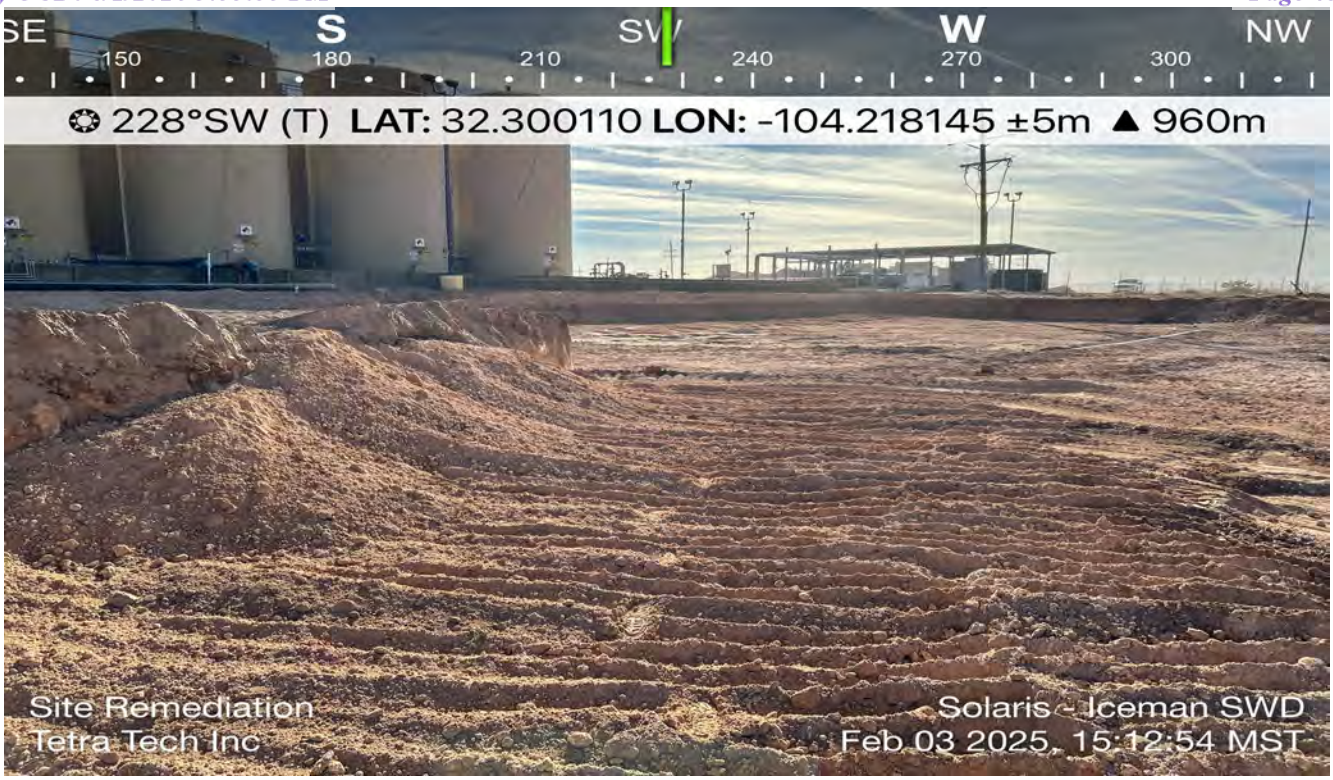
Photographic Documentation



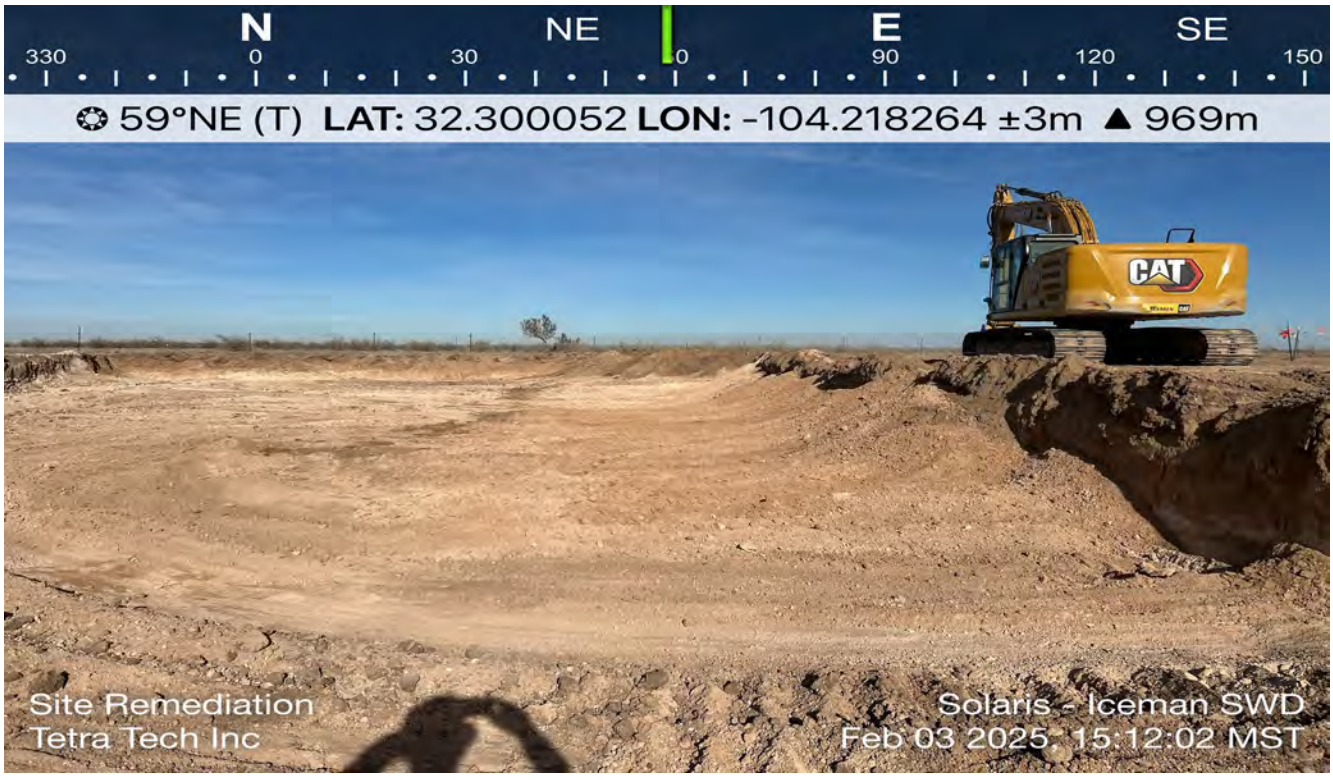
Tetra Tech Inc.	Description	View South. View of flowline conduit, wellhead, and excavation footprint.	1
	Site Name	Iceman SWD	1/23/2025



Tetra Tech Inc.	Description	View West. View of wellhead, concrete barriers, and excavation footprint.	2
	Site Name	Iceman SWD	1/23/2025



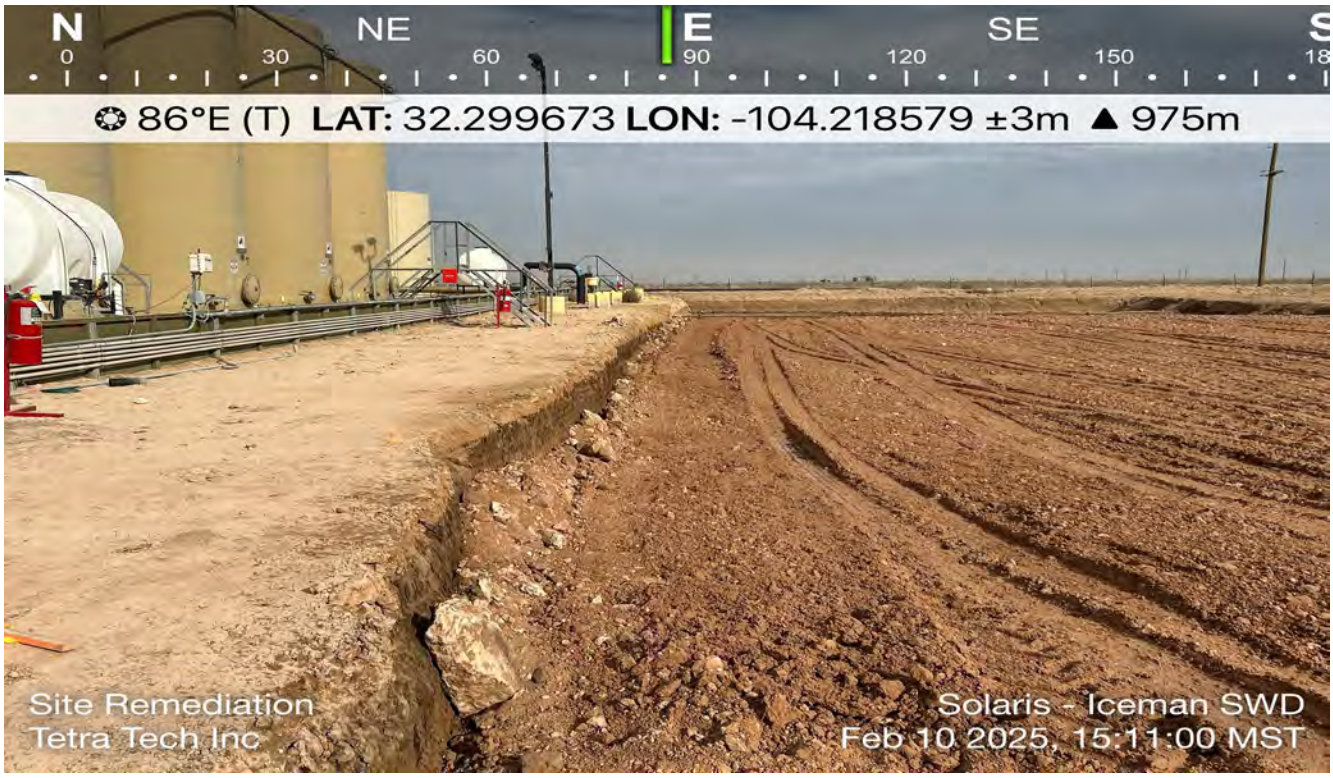
Tetra Tech Inc.	Description	View Southwest. View of tank battery, and excavation footprint.	3
	Site Name	Iceman SWD	2/03/2025



Tetra Tech Inc.	Description	View Northeast. View of excavation footprint.	4
	Site Name	Iceman SWD	2/03/2025



Tetra Tech Inc.	Description	View Nort. View battery pad and excavation footprint.	5
	Site Name	Iceman SWD	12/03/2025



Tetra Tech Inc.	Description	View East. View of Battery and excavation footprint.	6
	Site Name	Iceman SWD	2/10/2025



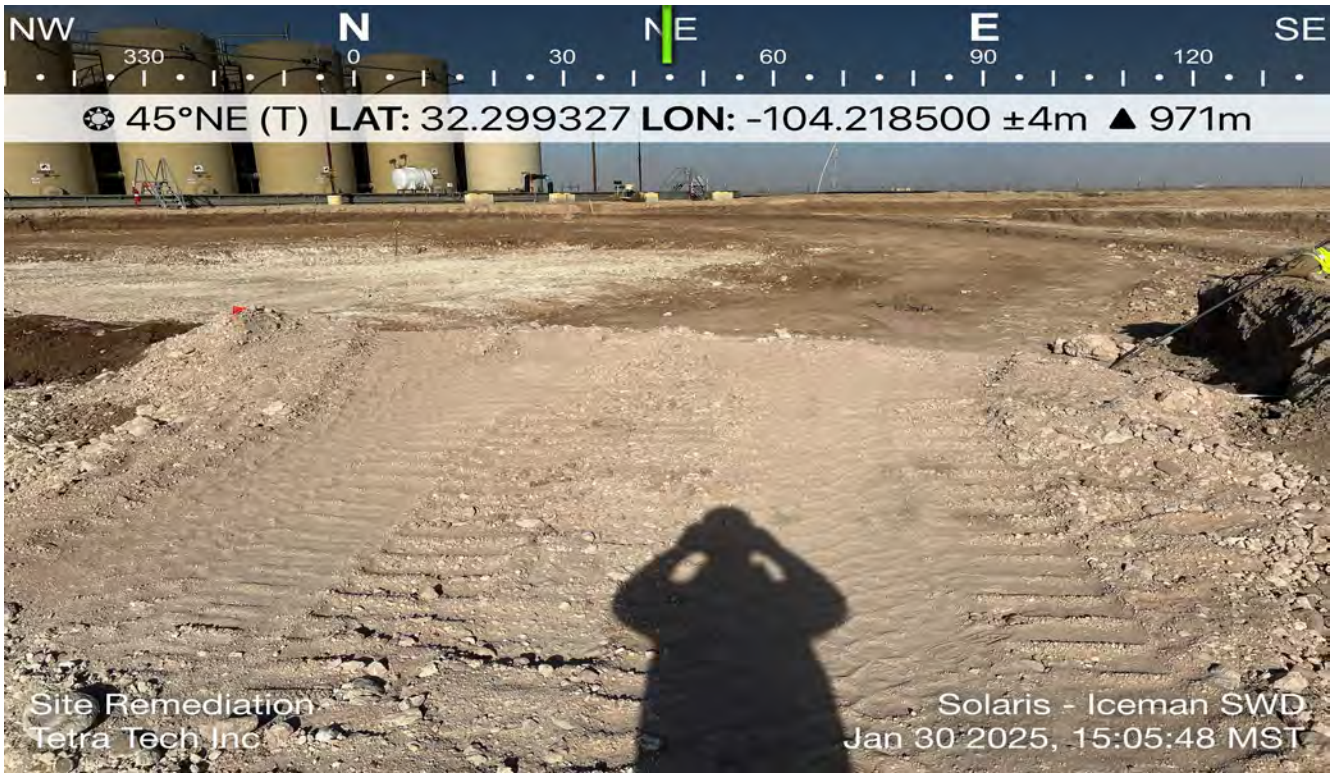
Tetra Tech Inc.	Description	View West. View of excavation footprint.	7
	Site Name	Iceman SWD	1/23/2025



Tetra Tech Inc.	Description	View South. View of excavation footprint.	8
	Site Name	Iceman SWD	1/28/2025



Tetra Tech Inc.	Description	View Northeast. View of excavation footprint.	9
	Site Name	Iceman SWD	1/28/2025



Tetra Tech Inc.	Description	View Northeast. View of Battery and excavation footprint.	10
	Site Name	Iceman SWD	1/30/2025



Tetra Tech Inc.	Description	View West. View of flowline, electrical box, and excavation footprint.	11
	Site Name	Iceman SWD	2/12/2025



Tetra Tech Inc.	Description	View North. View of excavation footprint.	12
	Site Name	Iceman SWD	1/30/2025

TETRA TECH

Appendix A

NMOCD Documentation

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2305350943
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water Midstream LLC	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 575- 300-5155 C 469-978-5620
Contact email rob.kirk@ariswater.com	Incident # *(assigned by OCD)*
Contact mailing address 3305 Boyd Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.29943 Longitude -104.21855
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Iceman SWD	Site Type Saltwater Disposal Well
Date Release Discovered 02/21/2023	API# *(if applicable)* 3001544265

Unit Letter	Section	Township	Range	County
M	17	23S	27E	Eddy

Surface Owner: ☑ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☑ Produced Water	Volume Released (bbls) 1950	Volume Recovered (bbls) 1890
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☑ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Automated communication system failed due to cellular connectivity allowing a tank valve to remain open and overflow the storage tank into secondary containment over time as the Produced Water was being pumped out of secondary containment some small leaks occurred.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305350943
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☑ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume of produced water released.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Rob Kirk notified via NMOCD Web Portal, emails/call to Aretsia office of OCD.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Rob Kirk
Title: VP & GM, HSE & Compliance
Signature:
Date: 02/22/2023
email: rob.kirk@ariswater.com
Telephone: O 575- 300-5155 C 469-978-5620

OCD Only

Received by: Jocelyn Harimon
Date: 02/22/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189484
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	2/23/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 189410

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Iceman SWD
Date Release Discovered	02/21/2023
Surface Owner	State

Incident Details *Please answer all the questions in this group.*	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Tank (Any) | Produced Water | Released: 1,950 BBL | Recovered: 1,890 BBL | Lost: 60 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by 19.15.29.7(A) NMAC	**Yes, major release.**
Reasons why this would be considered a submission for a notification of a major release	• Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Rob Kirk
If YES, was immediate notice given to the OCD, to whom	Artesia office and via NOR
If YES, was immediate notice given to the OCD, when	02/22/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	By email/phone and via OCD portal
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
☑	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
☑	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 189410

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
rkirk	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	2/22/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by 19.15.29.7(A) NMAC	**Yes, major release.**
Reasons why this would be considered a submission for a notification of a major release	• Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Rob Kirk
If YES, was immediate notice given to the OCD, to whom	Artesia office and via NOR
If YES, was immediate notice given to the OCD, when	02/22/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	By email/phone and via OCD portal
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
☑	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
☑	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Iceman SWD
Date Release Discovered	02/21/2023
Surface Owner	State

Incident Details *Please answer all the questions in this group.*	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Tank (Any) | Produced Water | Released: 1,950 BBL | Recovered: 1,890 BBL | Lost: 60 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 189410

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189410
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
rkirk	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	2/22/2023

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2305350943
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water Midstream LLC	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 575- 300-5155 C 469-978-5620
Contact email rob.kirk@ariswater.com	Incident # *(assigned by OCD)*
Contact mailing address 3305 Boyd Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.29943 Longitude -104.21855
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Iceman SWD	Site Type Saltwater Disposal Well
Date Release Discovered 02/21/2023	API# *(if applicable)* 3001544265

Unit Letter	Section	Township	Range	County
M	17	23S	27E	Eddy

Surface Owner: ☑ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☑ Produced Water	Volume Released (bbls) 1950	Volume Recovered (bbls) 1890
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☑ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Automated communication system failed due to cellular connectivity allowing a tank valve to remain open and overflow the storage tank into secondary containment over time as the Produced Water was being pumped out of secondary containment some small leaks occurred.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305350943
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☑ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume of produced water released.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Rob Kirk notified via NMOCD Web Portal, emails/call to Aretsia office of OCD.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Rob Kirk
Title: VP & GM, HSE & Compliance
Signature:
Date: 02/22/2023
email: rob.kirk@ariswater.com
Telephone: O 575- 300-5155 C 469-978-5620

OCD Only

Received by: Jocelyn Harimon
Date: 02/22/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 189484
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	2/23/2023

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 406589

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 406589
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/02/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 406589
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/26/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 408377

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 408377
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/06/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Contact – Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 408377
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/4/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 409035

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409035
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/10/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 409035

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409035
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/5/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 409050

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409050
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/11/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 409050

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409050
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/5/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 409051

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409051
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/12/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	– From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409051
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/5/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 411658

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411658
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/17/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 411658

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411658
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/13/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 411661

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411661
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 411661

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411661
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/13/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 411664

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411664
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/19/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 411664

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411664
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/13/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 411667

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411667
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 411667

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 411667
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/13/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 414688
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/27/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	• Contact – Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	• Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 414688
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/23/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 414693

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 414693
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/02/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	• Contact – Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 414693
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/23/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 414695

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 414695
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	6,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/03/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	• Contact – Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	• Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 414695
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/23/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 425742
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,500
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/30/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	• Contact – Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	• Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 425742
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/28/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 425745

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 425745
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,500
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	• Contact – Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	• Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 425745
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/28/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 427570

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 427570
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/05/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra tech 575-7251487
Please provide any information necessary for navigation to sampling site	Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 427570
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/3/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 427572
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra tech 575-725-1487
Please provide any information necessary for navigation to sampling site	Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 427572

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 427572
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/3/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 427576
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/07/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra tech 575-725-1487
Please provide any information necessary for navigation to sampling site	Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 427576
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/3/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 430050

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 430050
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	12,000
What is the estimated number of samples that will be gathered	60
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/12/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tetra Tech 575-725-1487
Please provide any information necessary for navigation to sampling site	ech/575-725-1487 Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 430050

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 430050
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/10/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 430056

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 430056
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	12,000
What is the estimated number of samples that will be gathered	60
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tetra Tech - 575- 724-1487
Please provide any information necessary for navigation to sampling site	ech/575-725-1487 Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 430056
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/10/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 430059

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 430059
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	12,000
What is the estimated number of samples that will be gathered	60
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/14/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech 575-725-1487
Please provide any information necessary for navigation to sampling site	ech/575-725-1487 Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 430059
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/10/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 432520

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432520
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/17/2025
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tetra Tech 575-725-1487
Please provide any information necessary for navigation to sampling site	Contact – Tetra Tech/575-725-1487 Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432520
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/17/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 432522

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432522
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/18/2025
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	tetra Tech 575-275-1487
Please provide any information necessary for navigation to sampling site	Contact – Tetra Tech/575-725-1487 Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432522
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/17/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432525
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/19/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Tetra tech 575-275-1487
Please provide any information necessary for navigation to sampling site	Contact – Tetra Tech/575-725-1487 Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432525
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/17/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432528
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech 575-725-1487
Please provide any information necessary for navigation to sampling site	Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432528
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/17/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 432530

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432530
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**ICEMAN SWD**
Date Release Discovered	**02/21/2023**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/21/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech 575-725-1487
Please provide any information necessary for navigation to sampling site	Directions – From intersection of 748 and 707, head south on 748 for 2.92 miles. Turn left (east) into location

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 432530
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/17/2025

TETRA TECH

Appendix B

Site Characterization Documents

Received by OCD: 6/1/2026 3:55:55 PM

Date | Time | ? Water-level date-time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Meas ager

Groundwater | United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321727104131801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321727104131801 23S.27E.19.421232

Eddy County, New Mexico
Latitude 32°17'27", Longitude 104°13'18" NAD27
Land-surface elevation 3,190 feet above NAVD88
The depth of the well is 180 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1966-01-05		D	62610		3033.25	NGVD29	1	Z			A
1966-01-05		D	62611		3034.89	NAVD88	1	Z			A
1966-01-05		D	72019	155.11			1	Z			A
1967-01-19		D	62610		3033.08	NGVD29	1	Z			A
1967-01-19		D	62611		3034.72	NAVD88	1	Z			A
1967-01-19		D	72019	155.28			1	Z			A
1968-01-26		D	62610		3033.20	NGVD29	1	Z			A
1968-01-26		D	62611		3034.84	NAVD88	1	Z			A
1968-01-26		D	72019	155.16			1	Z			A
1969-01-28		D	62610		3033.70	NGVD29	1	Z			A
1969-01-28		D	62611		3035.34	NAVD88	1	Z			A
1969-01-28		D	72019	154.66			1	Z			A
1970-01-20		D	62610		3032.54	NGVD29	1	Z			A
1970-01-20		D	62611		3034.18	NAVD88	1	Z			A
1970-01-20		D	72019	155.82			1	Z			A
1974-01-22		D	62610		3031.74	NGVD29	1	Z			A
1974-01-22		D	62611		3033.38	NAVD88	1	Z			A
1974-01-22		D	72019	156.62			1	Z			A
1975-01-29		D	62610		3032.27	NGVD29	1	Z			A
1975-01-29		D	62611		3033.91	NAVD88	1	Z			A
1975-01-29		D	72019	156.09			1	Z			A
1976-01-13		D	62610		3033.22	NGVD29	1	Z			A
1976-01-13		D	62611		3034.86	NAVD88	1	Z			A
1976-01-13		D	72019	155.14			1	Z			A
1977-02-01		D	62610		3032.96	NGVD29	1	Z			A
1977-02-01		D	62611		3034.60	NAVD88	1	Z			A
1977-02-01		D	72019	155.40			1	Z			A
1978-01-23		D	62610		3032.96	NGVD29	1	Z			A
1978-01-23		D	62611		3034.60	NAVD88	1	Z			A
1978-01-23		D	72019	155.40			1	Z			A
1983-01-25		D	62610		3032.71	NGVD29	1	Z			A
1983-01-25		D	62611		3034.35	NAVD88	1	Z			A
1983-01-25		D	72019	155.65			1	Z			A
1988-03-16		D	62610		3034.46	NGVD29	1	Z			A

Released to Imaging: 6/2/2026 11:27:44 AM

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency
1988-03-16		D	62611	3036.10	NAVD88	1	Z		A
1988-03-16		D	72019	153.90		1	Z		A
1993-05-04		D	62610	3031.61	NGVD29	1	S		A
1993-05-04		D	62611	3033.25	NAVD88	1	S		A
1993-05-04		D	72019	156.75		1	S		A
1995-07-18		D	62610	3032.28	NGVD29	1	S		A
1995-07-18		D	62611	3033.92	NAVD88	1	S		A
1995-07-18		D	72019	156.08		1	S		A
1996-01-23		D	62610	3032.81	NGVD29	1	S		A
1996-01-23		D	62611	3034.45	NAVD88	1	S		A
1996-01-23		D	72019	155.55		1	S		A
1998-01-14		D	62610	3032.68	NGVD29	1	S		A
1998-01-14		D	62611	3034.32	NAVD88	1	S		A
1998-01-14		D	72019	155.68		1	S		A
2003-01-24		D	62610	3027.63	NGVD29	1	S	USGS	S	A
2003-01-24		D	62611	3029.27	NAVD88	1	S	USGS	S	A
2003-01-24		D	72019	160.73		1	S	USGS	S	A
2018-02-01	00:14 UTC	m	62610	3055.14	NGVD29	1	V	USGS	S	A
2018-02-01	00:14 UTC	m	62611	3056.78	NAVD88	1	V	USGS	S	A
2018-02-01	00:14 UTC	m	72019	133.22		1	V	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2023-06-01 10:40:58 EDT
0.29 0.24 nadww01

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 01195			2	19	23S	27E	572958	3573260*

Driller License:	108	**Driller Company:**	SMITH, SAM S.		
Driller Name:	SMITH, SAM S.				
Drill Start Date:	07/01/1964	**Drill Finish Date:**	07/15/1964	**Plug Date:**	
Log File Date:	08/14/1964	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	6.00	**Depth Well:**	180 feet	**Depth Water:**	100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	168	173	Limestone/Dolomite/Chalk

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are smallest to largest) (meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 01195		C	ED			NE	19	23S	27E	572958.0	3573260.0 *		880	180	100	80
C 01781		C	ED		NE	SE	19	23S	27E	573161.0	3572659.0 *		1298			
C 01781 POD2		C	ED		NE	SE	19	23S	27E	573161.0	3572659.0 *		1298	210		
C 01781 POD3		C	ED		NE	SE	19	23S	27E	573161.0	3572659.0 *		1298	210		
C 01618		C	ED	SE	SE	SE	07	23S	27E	573252.0	3575384.0 *		1527	250		
C 03005		C	ED	SW	SE	SE	07	23S	27E	573052.0	3575384.0 *		1581	140	100	40

Average Depth to Water: **100 feet**

Minimum Depth: **100 feet**

Maximum Depth: **100 feet**

Record Count: 6

UTM Filters (in meters):
Easting: 573572.51
Northing: 3573890.17
Radius: 1600.0

*** UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

OCD Karst



3/4/2025, 9:35:53 PM

Wells - Large Scale

Gas, Active

Salt Water Injection, Active

Karst Occurrence Potential

High

1:4,514

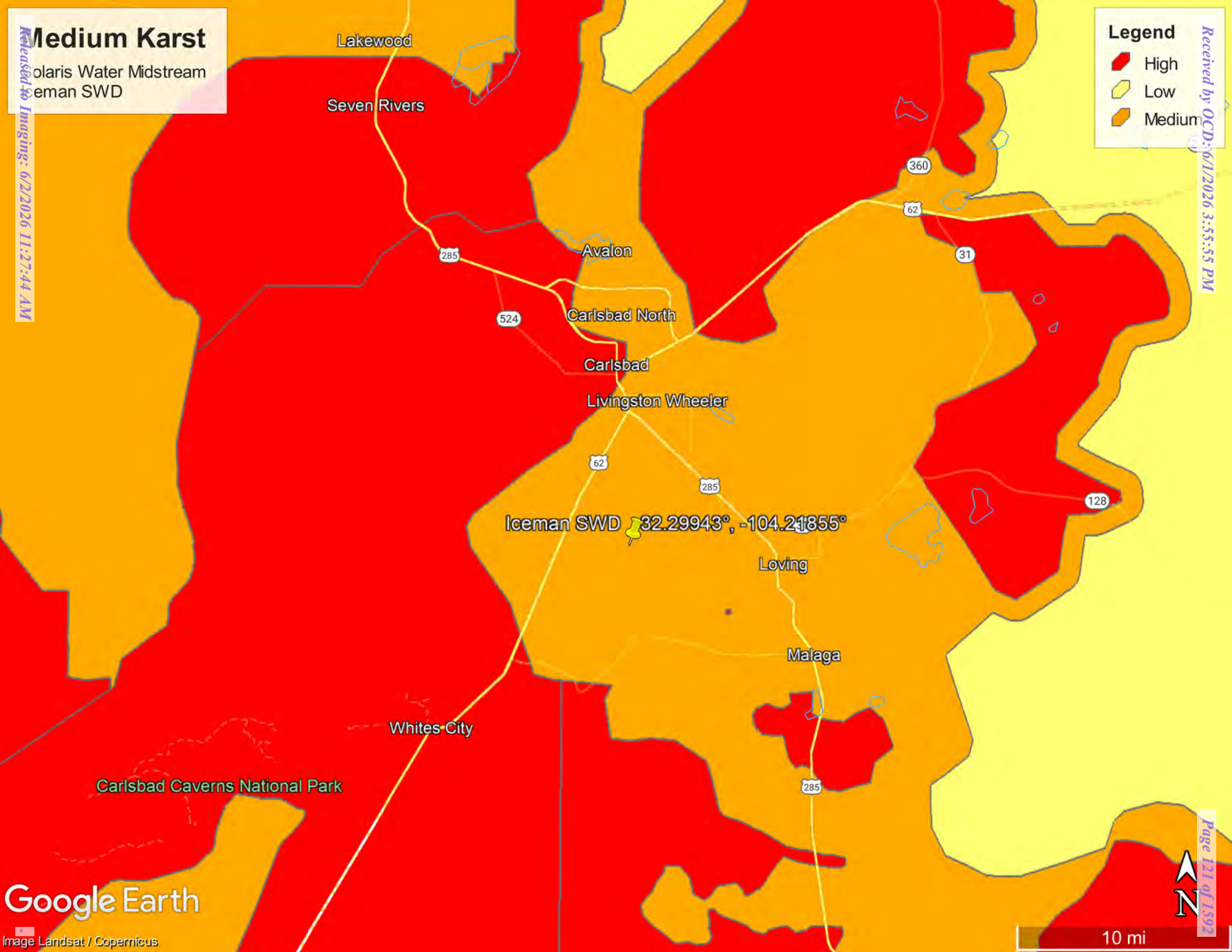
0 0.03 0.07 0.13 mi

0 0.05 0.1 0.2 km

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, IPC, Maxar

New Mexico Oil Conservation Division

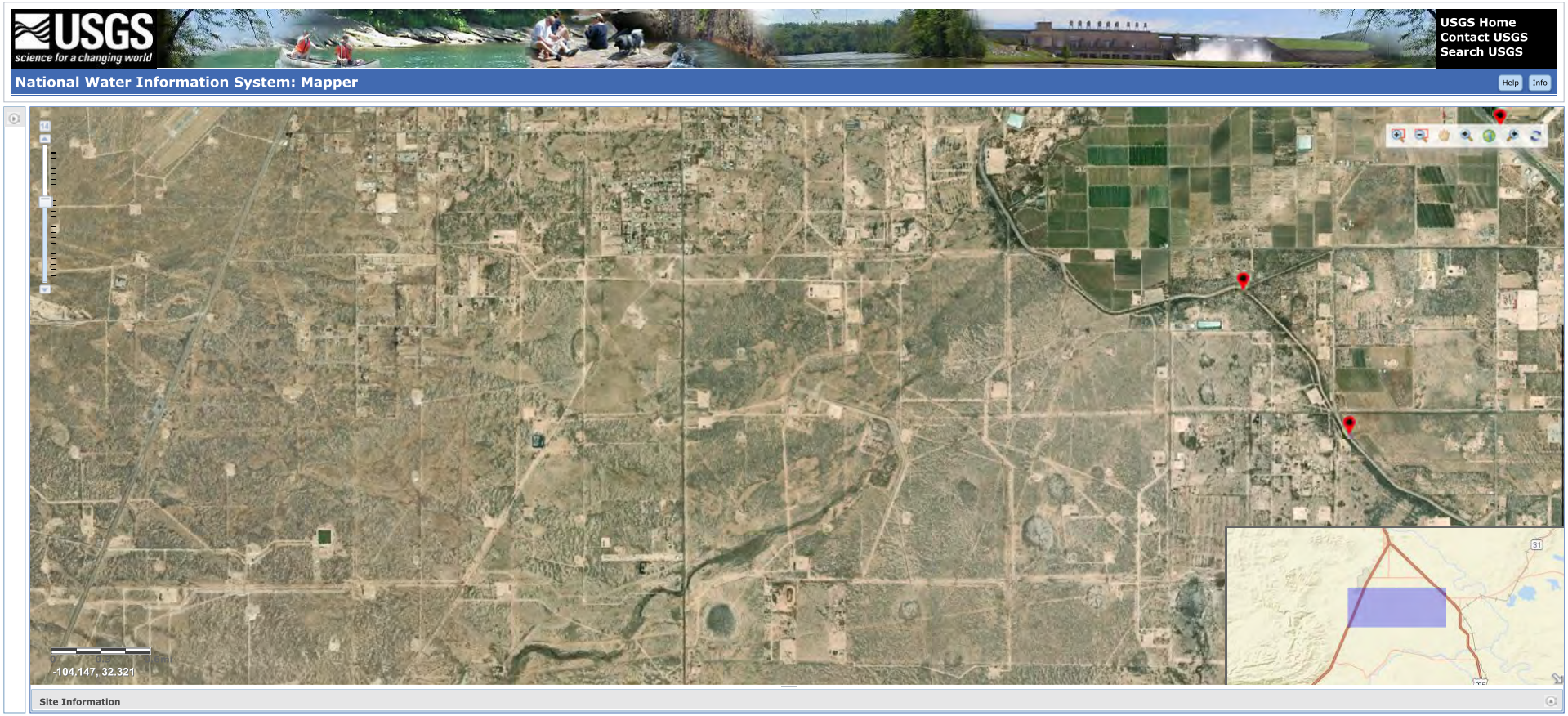
NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division



Released to Imaging: 6/2/2026 11:27:44 AM
Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM



Page 122 of 1592

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

OCD Water PODs



3/4/2025, 9:40:33 PM

OSE Water PODs

1:2,257

0 0.01 0.03 0.06 mi

0 0.03 0.05 0.1 km

Maxar, Microsoft, Esri, HERE, Garmin, IPC

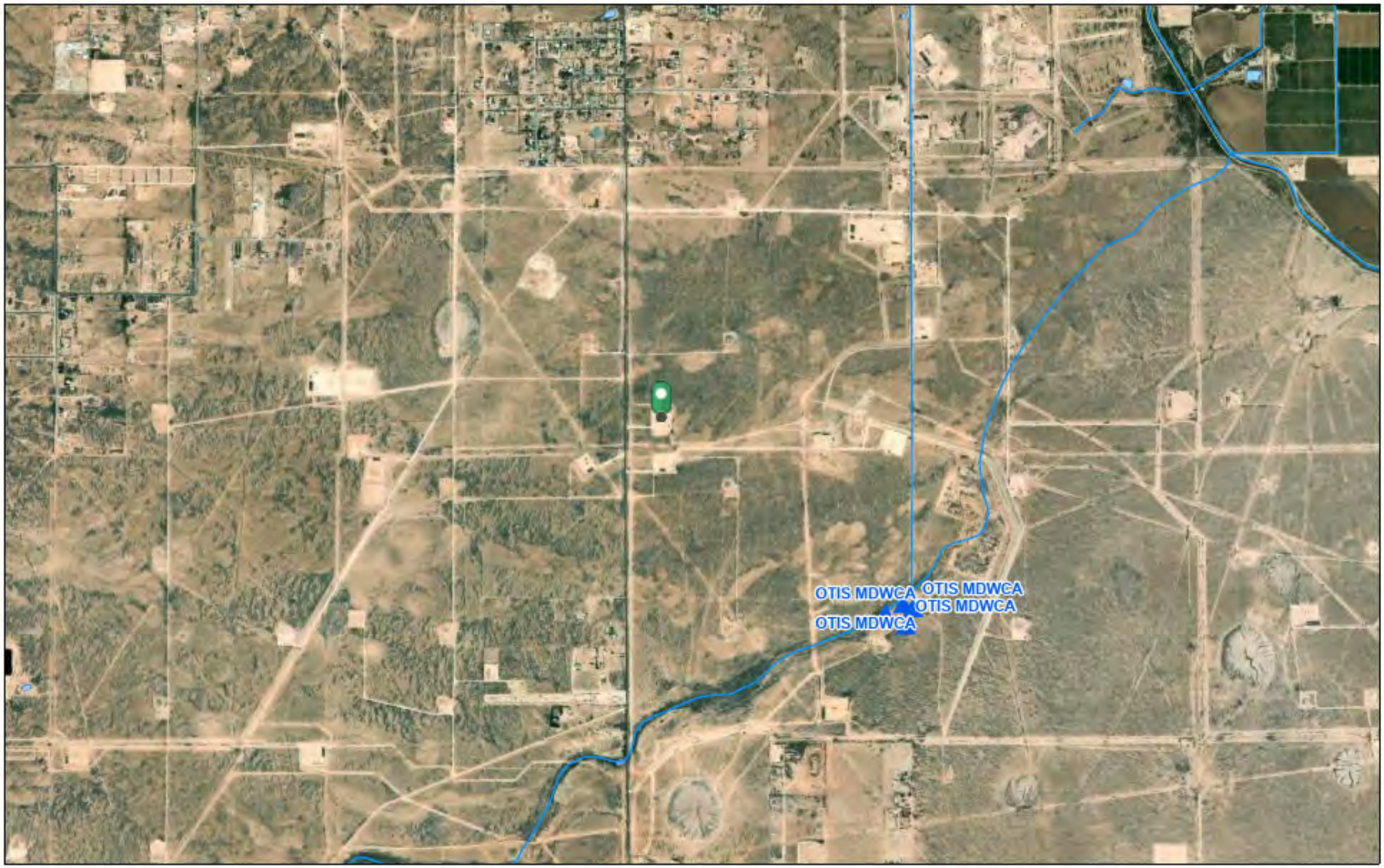
New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f6f35ca75: New Mexico Oil Conservation Division

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

OCD Hydrology



3/4/2025, 9:37:27 PM

OSW Water Bodys

NMED Drinking Water Systems

OSE Streams

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Esri, HERE, Garmin, Maxar, NM OSE

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f6f35ca75: New Mexico Oil Conservation Division

Released to Imaging: 6/2/2026 11:27:44 AM
Received by OCD: 6/1/2026 3:55:55 PM

National Flood Hazard Layer FIRMette

FEMA

104°13'25"W 32°18'13"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°12'48"W 32°17'43"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOU

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, A*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, A of 1% annual chance flood with avera depth less than one foot or with drain areas of less than one square mile *Zo*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zon*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

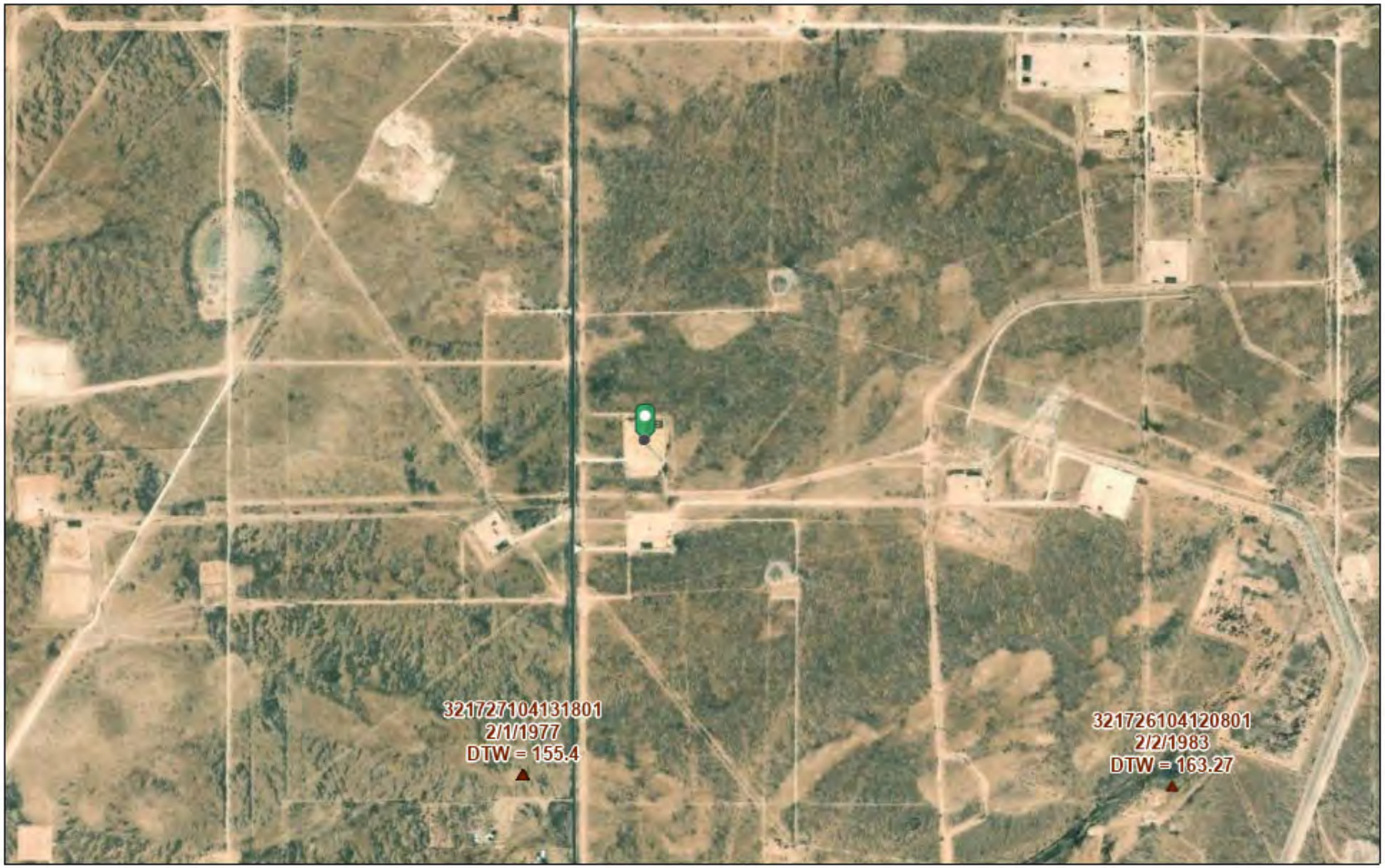
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/5/2025 at 4:31 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

OCD-USGS Groundwater



3/4/2025, 9:39:05 PM

▲ USGS Historical GW Wells

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

USGS, Esri, HERE, Garmin, IPC, Maxar

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

New Mexico NFHL Data



June 1, 2023

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

Released to Imaging: 6/2/2026 11:27:44 AM

Received by OCD: 6/1/2026 3:55:55 PM

OCD Mineral and Surface Ownership



3/4/2025, 9:34:12 PM

1:4,514

0 0.03 0.07 0.13 mi

0 0.05 0.1 0.2 km

U.S. BLM, OCD, Esri, HERE, Garmin, IPC, Maxar, BLM

Wells - Large Scale

- Gas, Active
- Salt Water Injection, Active

Mineral Ownership

- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.

Land Ownership

- S
- PLSS Second Division
- PLSS First Division

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☑ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: To Be Assigned

Name of well owner: Solaris Water Midstream

Mailing address: 3300 N A Street County:

City: Midland State: Texas Zip code: 79705

Phone number: 469.978.5620 E-mail: Rob.Kirk@ariswater.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: James Hawley Drilling

New Mexico Well Driller License No.: WD-1862 Expiration Date: 6/2025

IV. WELL INFORMATION: ☑ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 17 min, 54.75 sec
Longitude: 104 deg, 13 min, 6.09 sec, NAD 83

2) Reason(s) for plugging well(s): OSE OIL JAN 31 2024 PM 1:13

The bore will be left open for 72 hours to verify the lack of groundwater at 105' bgs, once that is verified, the bore will plugged.

3) Was well used for any type of monitoring program? No If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? No, Dry If yes, provide additional detail, including analytical results and/or laboratory report(s): N/A

5) Static water level: No Water feet below land surface / feet above land surface (circle one)

6) Depth of the well: ~105 feet

7) Inside diameter of innermost casing: No casing inches.

8) Casing material: N/A

9) The well was constructed with:

[■] an open-hole production interval, state the open interval: No water, test boring only, open 0 to TD

[ ] a well screen or perforated pipe, state the screened interval(s): _____

10) What annular interval surrounding the artesian casing of this well is cement-grouted? No casing or gravel pack

11) Was the well built with surface casing? No Well If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? N/A If yes, please describe:

open 2-inch boring

12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

[ ] **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

The well will be plugged with bentonite chips that are hydrated with water.

2) Will well head be cut-off below land surface after plugging? N/A

OSE DII JAN 31 2024 PM1:34

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 5.45 Gallons

4) Type of Cement proposed: N/A

5) Proposed cement grout mix: N/A gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: N/A batch-mixed and delivered to the site

N/A mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

N/A

8) Additional notes and calculations:

Calculated volume of Bentonite based off of a volume of a cylinder of 2" diameter bore at 105' depth, multiplied by 7.481 to convert to US Gallons.

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

N/A

VIII. SIGNATURE:

I, _____, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Signature of Applicant — Date: 30 Jan 2024

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is: OSE OIL JAN 31 2024 PM1:14

X Approved subject to the attached conditions.
_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 2nd day of February, 2024

Mike A. Hamman P.E., New Mexico State Engineer

By: K. Parekh

Kashyap Parekh

Water Resources Manager I

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			OSE DIT JAN 31 2024 PM1:1
Additive 2 percent by dry weight relative to cement			

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			Bentonite
Bottom of proposed sealant of grout placement (ft bgl)			Bentonite
Theoretical volume of sealant required per interval (gallons)			5.45 Gallons
Proposed abandonment sealant (manufacturer and trade name)			Bentonite

OSE OIL JAN 31 2024 PM1:14

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT to WD-08 Plan of Plugging
MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM Central Zone
☐ NM East Zone

☐ UTM (NAD83) (Meters)
☐ Zone 13N
☐ Zone 12N

☐ Lat/Long (WGS84) (1/10th of second)

OTHER (allowable only for move-from descriptions - see application form for format)
☒ PLSS (quarters, section, township, range)
☐ Hydrographic Survey, Map & Tract
☐ Lot, Block & Subdivision
☐ Grant

OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
To Be Determined (TBD)	BH-1	104°13'7.47"	32°17'58.00"	S17 T23S R27E Unit M	2.0	N/A	15-35	0.78 gallons - 1.82 ga	N
TBD	BH-2	104°13'6.15"	32°17'58.22"	S17 T23S R27E Unit M	2.0	N/A	15-35	0.78 gallons - 1.82 ga	N
TBD	BH-3	104°13'4.94"	32°17'58.59"	S17 T23S R27E Unit M	2.0	N/A	15-35	0.78 gallons - 1.82 ga	N
TBD	BH-4	104°13'5.29"	32°18'0.32"	S17 T23S R27E Unit M	2.0	N/A	15-35	0.78 gallons - 1.82 ga	N

OSE DII JAN 31 2024 PM1:14

FOR OSE INTERNAL USE Multiple Montioring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number:	Trn Number:
Trans Description (optional):	

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. James Hawley Drilling (WD-1862) will perform the plugging.

Permittee: Solaris Water Midstream
NMOSE Permit Number: C-4825-POD1 to POD5

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4825-POD1	2.0	105.0	Unknown	32° 17' 54.75"	104° 13' 6.09''
C-4825-POD2	2.0	15.0 to 35.0	Unknown	32° 17' 58.00"	104° 13' 7.47''
C-4825-POD3	2.0	15.0 to 35.0	Unknown	32° 17' 58.22"	104° 13' 6.15''
C-4825-POD4	2.0	15.0 to 35.0	Unknown	32° 17' 58.59"	104° 13' 4.94''
C-4825-POD5	2.0	15.0 to 35.0	Unknown	32° 18' 0.32"	104° 13' 5.29''

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Theoretical volume of sealant required for abandonment of the 2.0 inch borehole is approximately (a)17.12 gallons or (b) 2.44 or 5.71. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at (a) 105.0 feet or (b) 15.0 to 35.0 feet below ground surface (b.g.s.).

3. Bentonite chips (Baroid Quick Grout/Baroid Hole Plug) is the approved sealant. When bentonite chips are added above static water level, a minimum of 5-gallons of fresh water shall be added to the borehole per 50-lb of bentonite chips.

4. Placement of the sealant within the wells shall be by tremie pipe extending to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column. The tremie shall be incrementally

removed to retain the tremie bottom a limited distance above the top of the rising column of chips throughout the plugging process.

5. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

6. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

7. NMOSE witnessing of the plugging of the non-artesian well will not be required.

8. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

9. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 2nd day of February 2024

Mike A. Hamman, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

February 2, 2024

Solaris Water Midstream
3300 N. A Street
Midland, NM 79705

RE: Well Plugging Plan of Operations for **C-4825-POD1 to POD5**

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

K. Parekh

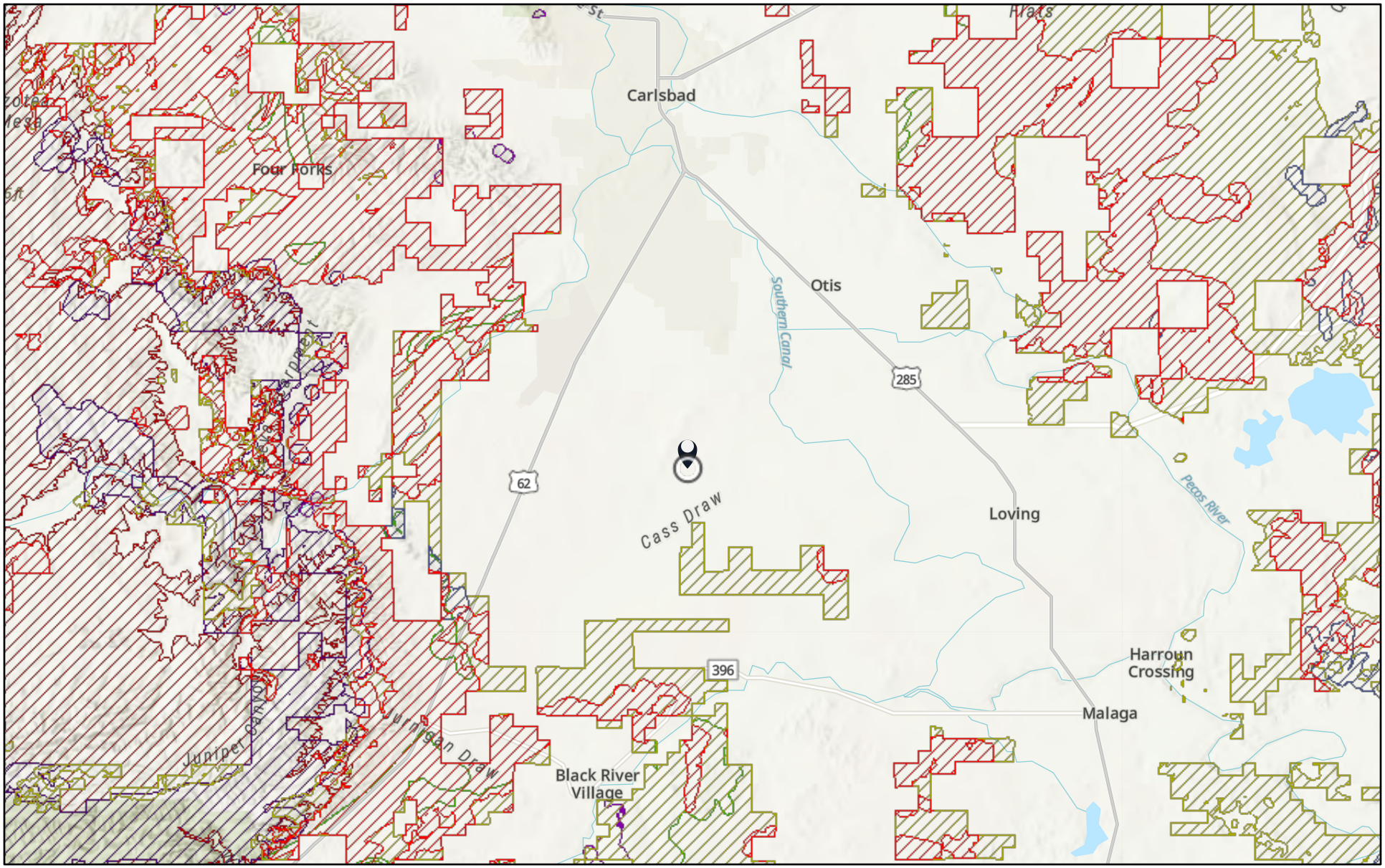
Kashyap Parekh
Water Resources Manager I

TETRA TECH

Appendix C

Biological Review

Solaris Iceman SWD



11/12/2024

1:216,371

0 1.5 3 6 mi

0 2.5 5 10 km

Potential Habitat (Planning Area Only)

- Guadalupe Mountains and Foothills
- Gypsum milkvetch
- Gypsum wild buckwheat
- Lee's pincushion cactus
- Scheer's beehive cactus
- Tharp's blue-star
- Wright's waterwillow

World Hillshade

Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/ NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, Bureau

TETRA TECH

Appendix D

Archaeological Survey Information

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

○ **ARMS Inspection/Review** - Summarize the results (select one):

☑ (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.

☐ (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.

☐ (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

○ **Archaeological Survey**

Findings:

☐ **Negative** - No further archaeological review is required.

☐ **Positive** - Have avoidance and protection measures been devised? Select one: ☐

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant: Tetra Tech Inc

Project Proponent (Applicant): Solaris Water Midstream

Project Title/Description: Iceman SWD

Project Location:

County(ies): Eddy

PLSS/Section/Township/Range): T23S R27E S17

For NMSLO Agency Use Only:

NMSLO Lease Number: ☐ Acknowledgment-Only: ☐

Lease Analyst: ☐

Date Exhibit Routed to Cultural Resources Office: ☐

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

TETRA TECH

Appendix E

Laboratory Reports

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 20, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ICEMAN SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/15/23 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -1 (0-1) (H236701-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.210**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *72.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *71.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -1 (1-2) (H236701-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.125**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *67.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *65.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -1 (2-3) (H236701-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.207**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *79.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *79.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -1 (3-4) (H236701-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.237**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *69.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -1 (4-5) (H236701-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.104**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *71.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -2 (0-1) (H236701-06)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.067**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *81.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -2 (1-2) (H236701-07)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.274**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *83.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -3 (0-1) (H236701-08)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.329**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	**0.329**	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4160**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	**24.4**	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *74.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -3 (1-2) (H236701-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.560**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	**0.560**	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3920**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	**535**	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	**187**	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *73.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -3 (2-3) (H236701-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.224**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**816**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	194	97.1	200	0.142	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	184	92.2	200	0.0472	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *80.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -4 (0-1) (H236701-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.243**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *72.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *74.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -4 (1-2) (H236701-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.287**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *73.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *74.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -4 (2-3) (H236701-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.231**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *72.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *74.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -4 (3-4) (H236701-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.100**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	12/18/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *74.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -5 (0-1) (H236701-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.124**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1630**	16.0	12/18/2023	ND	432	108	400	0.00	QM-07

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	**30.2**	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	**15.3**	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *70.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -5 (1-2) (H236701-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.429**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	**0.429**	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**784**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	**348**	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	**386**	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *75.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -5 (2-3) (H236701-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.182**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *69.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -5 (3-4) (H236701-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.224**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**512**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	**55.4**	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	**26.7**	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *73.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -5 (4-5) (H236701-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.284**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**816**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	**165**	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	**114**	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *72.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -5 (5-6) (H236701-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.16	108	2.00	6.68	
Toluene*	**0.086**	0.050	12/18/2023	ND	2.30	115	2.00	2.87	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.41	121	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.22	120	6.00	2.78	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *66.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *68.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -6 (0-1) (H236701-21)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.135**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1490**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *67.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *71.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -6 (1-2) (H236701-22)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.147**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *69.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -6 (2-3) (H236701-23)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.207**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**816**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *74.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -7 (0-1) (H236701-24)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.161**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *65.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *67.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -7 (1-2) (H236701-25)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.077**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**416**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *72.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -7 (2-3) (H236701-26)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.219**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *73.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -7 (3-4) (H236701-27)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.135**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *65.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -8 (0-1) (H236701-28)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.207**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane *75.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -8 (1-2) (H236701-29)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.289**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2320**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane *73.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -8 (2-3) (H236701-30)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.411**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	**0.411**	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2040**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	197	98.7	200	0.853	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	206	103	200	0.0336	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane *74.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -8 (3-4) (H236701-31)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.208**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *86.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -8 (4-5) (H236701-32)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.270**	0.050	12/18/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1300**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *85.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -9 (0-1) (H236701-33)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.293**	0.050	12/19/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16000**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *85.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -9 (1-2) (H236701-34)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.172**	0.050	12/19/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4240**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *87.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -9 (2-3) (H236701-35)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.050**	0.050	12/19/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2960**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *82.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -9 (3-4) (H236701-36)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.107**	0.050	12/19/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3280**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *83.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	12/15/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: T -9 (4-5) (H236701-37)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.38	119	2.00	7.84	
Toluene*	**0.056**	0.050	12/19/2023	ND	2.34	117	2.00	7.63	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	117	2.00	8.24	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	7.01	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3760**	16.0	12/18/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane *81.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 182 of 1592

alysis Request of Chain of Custody Record

Page 1 of

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris

Site Manager: Brittany Lon

Project Name: Ice Man

Project Location: (Eddy, NM)

Project #: 212C-MD-03085

Invoice to:

Receiving Laboratory: Cardinal

Sampler Signature:

Comments

Please forward questions to Brittany.Long@tetratech.com

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
1	T-1 (0-1)	12/15/2023	08:00		x			x			x		x												x								
2	T-1 (1-2)	12/15/2023	0800		x			x			x		x												x								
3	T-1 (2-3)	12/15/2023	0800		x			x			x		x												x								
4	T-1 (3-4)	12/15/2023	08:00		x			x			x		x												x								
5	T-1 (4-5)	12/15/2023	08:00		x			x			x		x												x								
6	T-2 (0-1)	12/15/2023	08:00		x			x			x		x												x								
7	T-2 (1-2)	12/15/2023	08:00		x			x			x		x												x								
8	T-3 (0-1)	12/15/2023	08:00		x			x			x		x												x								
9	T-3 (1-2)	12/15/2023	08:00		x			x			x		x												x								
10	T-3 (2-3)	12/15/2023	08:00		x			x			x		x												x								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	12/15/23	16:12		12-15-23	16:16
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

3.1°C

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 783 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris

Site Manager: Brittany Lon

Project Name: Ice Man

Project Location: (Eddy, NM)

Project #: 212C-MD-03085

Invoice to:

Receiving Laboratory: Cardinal

Sampler Signature:

Comments

Please forward questions to Brittany.Long@tetratech.com

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
11	T-4 (0-1)	12/15/2023	0:00		x				x			
12	T-4 (1-2)	12/15/2023	08:00		x				x			
13	T-4 (2-3)	12/15/2023	08:00		x				x			
14	T-4 (3-4)	12/15/2023	08:00		x				x			
15	T-5 (0-1)	12/15/2023	08:00		x				x			
16	T-5 (1-2)	12/15/2023	08:00		x				x			
17	T-5 (2-3)	12/15/2023	08:00		x				x			
18	T-5 (3-4)	12/15/2023	08:00		x				x			
19	T-5 (4-5)	12/15/2023	08:00		x				x			
20	T-5 (5-6)	12/15/2023	08:00		x				x			

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
11	x		x												x							
12	x		x												x							
13	x		x												x							
14	x		x												x							
15	x		x												x							
16	x		x												x							
17	x		x												x							
18	x		x												x							
19	x		x												x							
20	x		x												x							

Relinquished by: Date: 12/15/23 Time: 16:12

Received by: Date: 12-15-23 Time: 16:16

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.1 °C

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 184 of 1592

Analysis Request of Chain of Custody Record

Page 3 of

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris

Site Manager: Brittany Lon

Project Name: Ice Man

Project Location: (Eddy, NM)

Project #: 212C-MD-03085

Invoice to:

Receiving Laboratory: Cardinal

Sampler Signature:

Comments

Please forward questions to Brittany.Long@tetratech.com

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
21	T-6 (0-1)	12/15/2023	0:00		x				x				x		x												x							
22	T-6 (1-2)	12/15/2023	08:00		x				x				x		x												x							
23	T-6 (2-3)	12/15/2023	08:00		x				x				x		x												x							
24	T-7 (0-1)	12/15/2023	08:00		x				x				x		x												x							
25	T-7 (1-2)	12/15/2023	08:00		x				x				x		x												x							
26	T-7 (2-3)	12/15/2023	08:00		x				x				x		x												x							
27	T-7 (3-4)	12/15/2023	08:00		x				x				x		x												x							
28	T-8 (0-1)	12/15/2023	08:00		x				x				x		x												x							
29	T-8 (1-2)	12/15/2023	08:00		x				x				x		x												x							
30	T-8 (2-3)	12/15/2023	08:00		x				x				x		x												x							

Relinquished by: Date: 12/15/23 Time: 16:12

Received by: Date: 12.15.23 Time: 16:16

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.1°C

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/2/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 185 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris

Site Manager: Brittany Long

Project Name: Ice Man

Project Location: (Eddy, NM)

Project #: 212C-MD-03085

Invoice to:

Receiving Laboratory: Cardinal

Sampler Signature:

Comments

Please forward questions to Brittany.Long@tetratech.com

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
31	T-8 (3-4)	12/15/2023	8:00		x			x			x		x												x								
32	T-8 (4.5)	12/15/2023	08:00		x			x			x		x												x								
33	T-9 (0-1)	12/15/2023	08:00		x			x			x		x												x								
34	T-9 (1-2)	12/15/2023	08:00		x			x			x		x												x								
35	T-9 (2-3)	12/15/2023	08:00		x			x			x		x												x								
36	T-9 (3-4)	12/15/2023	08:00		x			x			x		x												x								
37	T-9 (4-5)	12/15/2023	08:00		x			x			x		x												x								
		12/15/2023			x			x			x		x												x								
		12/15/2023			x			x			x		x												x								
		12/15/2023			x			x			x		x												x								

Relinquished by: Date: 12/15/23 Time: 16:12

Received by: Date: 12-15-23 Time: 16:14

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.1°C

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 01, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ICEMAN SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 1 (H233900-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *85.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 2 (H233900-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *78.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 3 (H233900-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *86.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 4 (H233900-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *116 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 5 (H233900-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *88.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 6 (H233900-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	**63.7**	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	**54.9**	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *83.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 7 (H233900-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	**15.2**	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *117 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 8 (H233900-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.33	116	2.00	1.98	
Toluene*	<0.050	0.050	07/30/2023	ND	2.24	112	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.42	107	6.00	1.64	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	**27.0**	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	**17.4**	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *87.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 9 (H233900-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *76.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 10 (H233900-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	**54.7**	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	**45.2**	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *71.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 11 (H233900-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *94.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 12 (H233900-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *83.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 13 (H233900-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 14 (H233900-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *82.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 15 (H233900-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	189	94.3	200	3.74	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	202	101	200	5.86	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *88.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 16 (H233900-16)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	183	91.7	200	9.26	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	194	97.1	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane *81.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/26/2023	Sampling Date:	07/24/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: H - 17 (H233900-17)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	07/31/2023	ND	2.11	105	2.00	0.190	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.17	109	2.00	1.73	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.54	109	6.00	2.40	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	183	91.7	200	9.26	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	194	97.1	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane *95.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 205 of 1592

Analysis Request of Chain of Custody Record

Page 1 of 2

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Cardinal Labs	Sampler Signature: Miguel A. Flores
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
H233900		YEAR: 2023																														
1	H-1	7/24/2023			x			x			x		x												x							
2	H-2	7/24/2023			x			x			x		x												x							
3	H-3	7/24/2023			x			x			x		x												x							
4	H-4	7/24/2023			x			x			x		x												x							
5	H-5	7/25/2023			x			x			x		x												x							
6	H-6	7/25/2023			x			x			x		x												x							
7	H-7	7/25/2023			x			x			x		x												x							
8	H-8	7/25/2023			x			x			x		x												x							
9	H-9	7/24/2023			x			x			x		x												x							
10	H-10	7/24/2023			x			x			x		x												x							

Relinquished by: Miguel A Flores	Date: 7/26/23	Time: 1133	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 7-26-23 Time: 1130

LAB USE ONLY
Sample Temperature 3.9°C
#140

REMARKS: Standard TAT

- RUSH: Same Day 24 hr 48 hr 72 hr
- Rush Charges Authorized
- Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 206 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Iceman SWD		(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-03085
Invoice to:	Solairs ATTN: Rob Kirk		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
H233900		YEAR: 2023																										
11	H-11	7/24/2023			x			x			x		x												x				
12	H-12	7/24/2023			x			x			x		x												x				
13	H-13	7/24/2023			x			x			x		x												x				
14	H-14	7/24/2023			x			x			x		x												x				
15	H-15	7/24/2023			x			x			x		x												x				
16	H-16	7/24/2023			x			x			x		x												x				
17	H-17	7/24/2023			x			x			x		x												x				

Relinquished by:	Miguel A Flores	Date: 7/26/23	Time: 1133	Received by: Tamara Oldaker
Relinquished by:		Date:	Time:	Received by:
Relinquished by:		Date:	Time:	Received by:

Received by: Date: 7-26-23 Time: 1136

LAB USE ONLY
Sample Temperature
3.9°C
#140

REMARKS: Standard TAT

- RUSH: Same Day 24 hr 48 hr 72 hr
- Rush Charges Authorized
- Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 12, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ICEMAN SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/09/24 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH1 @ 4' (H245435-01)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *149 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	09/10/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *77.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH1 @ 5' (H245435-02)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *147 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *73.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH2 @ 4' (H245435-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *130 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *74.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH2 @ 5' (H245435-04)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *149 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *78.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH3 @ 4' (H245435-05)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *151 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *86.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH3 @ 5' (H245435-06)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *142 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *83.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH3 @ 6' (H245435-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *132 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *65.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *63.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH4 @ 4' (H245435-08)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *144 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4800**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *83.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH4 @ 5' (H245435-09)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *146 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2920**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *74.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *74.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH4 @ 6' (H245435-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *132 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1470**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *83.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH4 @ 7' (H245435-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *131 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**640**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *77.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH4 @ 8' (H245435-12)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/11/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *146 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *71.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	ICEMAN SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03085	Sample Received By:	Alyssa Parras
Project Location:	SOLARIS- EDDY CO., NM		

Sample ID: BH4 @ 9' (H245435-13)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/11/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/11/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *140 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	09/10/2024	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *72.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *70.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 222 of 1592

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Tetra Tech	**BILL TO** P.O. #:	
Project Manager:	Brittany Long	Company:	Solaris
Address:		Attn:	Rob Kirk
City:	Midland	State: TX Zip:	Address:
Phone #:		Fax #:	City:
Project #:		Project Owner:	State: Zip:
Project Name:	Iceman State SWD		Phone #:
Project Location:	Eddy Co		Fax #:
Sampler Name:	Gilberto Sanchez		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	TPH (DRO/GRO)	Chloride 4500
H245435																	
1	BH1 @ 4'					↑					↑		4.9.24	8:20	↑	↑	↑
2	BH1 @ 5'													8:40			
3	BH2 @ 4'													9:00			
4	BH2 @ 5'													9:15			
5	BH3 @ 4'													9:45			
6	BH3 @ 5'													10:05			
7	BH3 @ 6'													10:27			
8	BH4 @ 4'													10:51			
9	BH4 @ 5'													11:07			
10	BH4 @ 6'													11:13			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 9.9.24	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Gilberto Sanchez	Time: 1450		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 4.0	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: ☒ Standard ☐ Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.5 4.5 4.0			Thermometer ID #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C ____ Corrected Temp. °C ____

FORM-006 R 3.3 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 223 of 1592

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Tetra Tech
Project Manager:	Brittany Long
Address:	
City:	Midland State: TX Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	Iceman State SWD
Project Location:	Eddy Co
Sampler Name:	Gilberto Sanchez

BILL TO

P.O. #:	
Company:	Solaris
Attn:	Rob Kirk
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH (DRO/GRO/ORO)	Chloride 4500
H245435 11	BH4 @ 7'					X					X		9.9.24	11:40	X	X	X
12	BH4 @ 8'													11:50			
13	BH4 @ 9'													11:59			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Gilberto Sanchez	Date: 9.9.24 Time: 1450	Received By: APalmos	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
			REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 4.0	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☒ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.5	☑ Yes ☐ Yes ☐ No ☐ No	AP	Thermometer ID #140 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.3 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/11/2024 5:45:51 PM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7443-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

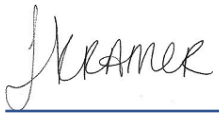
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/11/2024 5:45:51 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7443-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 40
QC Sample Results 43
QC Association Summary 55
Lab Chronicle 65
Certification Summary 78
Method Summary 79
Sample Summary 80
Chain of Custody 81
Receipt Checklists 86

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7443-1

Job ID: 890-7443-1 Eurofins Carlsbad

Job Narrative
890-7443-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/6/2024 1:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.8°C.

Receipt Exceptions
One or more containers for the following samples were received empty: BH-12 (3) (890-7443-7), SW-4 (890-7443-17) and SW-5 (890-7443-18).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-10 (890-7443-22), BH-26 (2) (890-7443-23), BH-35 (2) (890-7443-24), BH-39 (4) (890-7443-25), BH-40 (4) (890-7443-26), BH-41 (4) (890-7443-27), BH-42 (4) (890-7443-28), BH-46 (3) (890-7443-29), BH-47 (3) (890-7443-30), BH-48 (3) (890-7443-31), BH-49 (2) (890-7443-32), BH-50 (2) (890-7443-33), BH-51 (2) (890-7443-34), BH-30 (2) (890-7443-35), BH-31 (2) (890-7443-36), BH-32 (2) (890-7443-37), BH-34 (2) (890-7443-38), BH-37 (3) (890-7443-39), BH-27 (2) (890-7443-40) and BH-28 (2) (890-7443-41). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97363 and analytical batch 880-97399 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-7 (3.0)' (890-7443-2), BH-8 (3.0) (890-7443-3) and (890-7441-A-1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-97365 and analytical batch 880-97399 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-97365/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97403 and analytical batch 880-97422 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: BH-25 (3.0) (890-7443-16), SW-14 (890-7443-19), SW-7 (890-7443-20), SW-9 (890-7443-21), SW-10 (890-7443-22), BH-26 (2) (890-7443-23), BH-35 (2) (890-7443-24), (890-7443-A-16-E MS) and (890-7443-A-16-F MSD).

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7443-1

Job ID: 890-7443-1 (Continued) Eurofins Carlsbad

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97423 and analytical batch 880-97441 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-6 (4.0)'

Date Collected: 12/06/24 08:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 12:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 12:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 12:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:44	12/09/24 12:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:44	12/09/24 12:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/09/24 09:44*	*12/09/24 12:47*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/09/24 09:44*	*12/09/24 12:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 12:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 15:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 15:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 15:15	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*12/09/24 08:54*	*12/09/24 15:15*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/09/24 08:54*	*12/09/24 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**375**		9.90		mg/Kg			12/09/24 20:00	1

Client Sample ID: BH-7 (3.0)'

Date Collected: 12/06/24 08:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 13:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 13:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 13:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/09/24 09:44	12/09/24 13:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/09/24 09:44	12/09/24 13:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/09/24 09:44*	*12/09/24 13:07*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/09/24 09:44*	*12/09/24 13:07*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-7 (3.0)'
Date Collected: 12/06/24 08:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/09/24 13:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 15:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 15:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 15:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 15:31	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/09/24 08:54*	*12/09/24 15:31*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*12/09/24 08:54*	*12/09/24 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**367**		9.92		mg/Kg			12/09/24 20:17	1

Client Sample ID: BH-8 (3.0)
Date Collected: 12/06/24 08:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 13:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 13:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 13:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:44	12/09/24 13:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:44	12/09/24 13:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/09/24 09:44*	*12/09/24 13:28*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:44*	*12/09/24 13:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 13:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/09/24 15:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/09/24 08:54	12/09/24 15:47	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-8 (3.0)
Date Collected: 12/06/24 08:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/09/24 08:54	12/09/24 15:47	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/09/24 08:54	12/09/24 15:47	1
Total TPH	<49.6	U	49.6		mg/Kg		12/09/24 08:54	12/09/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/09/24 08:54*	*12/09/24 15:47*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*12/09/24 08:54*	*12/09/24 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**		9.98		mg/Kg			12/09/24 20:23	1

Client Sample ID: BH-9 (3)
Date Collected: 12/06/24 08:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 13:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 13:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 13:48	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/24 09:44	12/09/24 13:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/24 09:44	12/09/24 13:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/09/24 09:44*	*12/09/24 13:48*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:44*	*12/09/24 13:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/09/24 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 16:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 16:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 16:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 16:03	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:03*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:03*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-9 (3)
Date Collected: 12/06/24 08:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**257**		9.98		mg/Kg			12/09/24 20:29	1

Client Sample ID: BH-10 (3)
Date Collected: 12/06/24 08:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 14:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 14:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 14:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:44	12/09/24 14:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:44	12/09/24 14:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/09/24 09:44*	*12/09/24 14:09*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/09/24 09:44*	*12/09/24 14:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 14:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**81.8**		50.0		mg/Kg			12/09/24 16:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 16:19	1
Diesel Range Organics (Over C10-C28)	**81.8**		50.0		mg/Kg		12/09/24 08:54	12/09/24 16:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 16:19	1
Total TPH	**81.8**		50.0		mg/Kg		12/09/24 08:54	12/09/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:19*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**392**		10.1		mg/Kg			12/09/24 16:41	1

Client Sample ID: BH-11 (3)
Date Collected: 12/06/24 08:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 14:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 14:30	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-11 (3)
Date Collected: 12/06/24 08:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 14:30	1
Xylenes, Total	**0.00402**		0.00397		mg/Kg		12/09/24 09:44	12/09/24 14:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:44	12/09/24 14:30	1
o-Xylene	**0.00402**		0.00198		mg/Kg		12/09/24 09:44	12/09/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/09/24 09:44*	*12/09/24 14:30*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/09/24 09:44*	*12/09/24 14:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00402**		0.00397		mg/Kg			12/09/24 14:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**253**		49.9		mg/Kg			12/09/24 16:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 16:34	1
Diesel Range Organics (Over C10-C28)	**253**		49.9		mg/Kg		12/09/24 08:54	12/09/24 16:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 16:34	1
Total TPH	**253**		49.9		mg/Kg		12/09/24 08:54	12/09/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:34*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**589**		10.1		mg/Kg			12/09/24 16:57	1

Client Sample ID: BH-17 (3)
Date Collected: 12/06/24 08:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:44	12/09/24 14:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:44	12/09/24 14:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:44	12/09/24 14:50	1
Xylenes, Total	**0.0246**		0.00402		mg/Kg		12/09/24 09:44	12/09/24 14:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/09/24 09:44	12/09/24 14:50	1
o-Xylene	**0.0246**		0.00201		mg/Kg		12/09/24 09:44	12/09/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/09/24 09:44*	*12/09/24 14:50*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/09/24 09:44*	*12/09/24 14:50*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-17 (3)

Date Collected: 12/06/24 08:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-8
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0246**		0.00402		mg/Kg			12/09/24 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 16:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 16:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 16:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 16:50	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:50*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/09/24 08:54*	*12/09/24 16:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		10.1		mg/Kg			12/09/24 17:02	1

Client Sample ID: BH-18 (3)

Date Collected: 12/06/24 08:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 15:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 15:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 15:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/09/24 09:44	12/09/24 15:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/09/24 09:44	12/09/24 15:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/09/24 09:44*	*12/09/24 15:10*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/09/24 09:44*	*12/09/24 15:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/09/24 15:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 17:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 17:22	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-18 (3)

Date Collected: 12/06/24 08:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-9
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 17:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 17:22	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/09/24 08:54*	*12/09/24 17:22*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/09/24 08:54*	*12/09/24 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		9.94		mg/Kg			12/09/24 17:08	1

Client Sample ID: BH-19 (3)

Date Collected: 12/06/24 08:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 16:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 16:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 16:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:44	12/09/24 16:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:44	12/09/24 16:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/09/24 09:44*	*12/09/24 16:55*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:44*	*12/09/24 16:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 16:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/09/24 17:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/09/24 08:54	12/09/24 17:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/09/24 08:54	12/09/24 17:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/09/24 08:54	12/09/24 17:38	1
Total TPH	<49.7	U	49.7		mg/Kg		12/09/24 08:54	12/09/24 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*12/09/24 08:54*	*12/09/24 17:38*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/09/24 08:54*	*12/09/24 17:38*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-19 (3)
Date Collected: 12/06/24 08:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-10
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		9.96		mg/Kg			12/09/24 17:13	1

Client Sample ID: BH-20 (3)
Date Collected: 12/06/24 09:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 17:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 17:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 17:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:44	12/09/24 17:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:44	12/09/24 17:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/09/24 09:44*	*12/09/24 17:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/09/24 09:44*	*12/09/24 17:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/09/24 17:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 17:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 17:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/09/24 08:54*	*12/09/24 17:55*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/09/24 08:54*	*12/09/24 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		9.94		mg/Kg			12/09/24 17:29	1

Client Sample ID: BH-21 (3.0)
Date Collected: 12/06/24 09:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 17:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 17:36	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-21 (3.0)
Date Collected: 12/06/24 09:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 17:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/09/24 09:44	12/09/24 17:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/09/24 09:44	12/09/24 17:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*12/09/24 09:44*	*12/09/24 17:36*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/09/24 09:44*	*12/09/24 17:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/24 17:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 18:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 18:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 18:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 18:10	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:54	12/09/24 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/09/24 08:54*	*12/09/24 18:10*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/09/24 08:54*	*12/09/24 18:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		9.98		mg/Kg			12/09/24 17:34	1

Client Sample ID: BH-22 (3.0)
Date Collected: 12/06/24 09:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 17:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 17:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 17:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/09/24 09:44	12/09/24 17:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/09/24 09:44	12/09/24 17:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/09/24 09:44*	*12/09/24 17:56*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/09/24 09:44*	*12/09/24 17:56*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-22 (3.0)

Lab Sample ID: 890-7443-13
Matrix: Solid
Date Collected: 12/06/24 09:10
Date Received: 12/06/24 13:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/09/24 17:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 18:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:27	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/09/24 08:54*	*12/09/24 18:27*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/09/24 08:54*	*12/09/24 18:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**352**		10.0		mg/Kg			12/09/24 17:39	1

Client Sample ID: BH-23 (3.0)

Lab Sample ID: 890-7443-14
Matrix: Solid
Date Collected: 12/06/24 09:15
Date Received: 12/06/24 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:44	12/09/24 18:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:44	12/09/24 18:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:44	12/09/24 18:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/09/24 09:44	12/09/24 18:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/09/24 09:44	12/09/24 18:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:44	12/09/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*12/09/24 09:44*	*12/09/24 18:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/09/24 09:44*	*12/09/24 18:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/24 18:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 18:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:43	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-23 (3.0)
Date Collected: 12/06/24 09:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-14
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:43	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/09/24 08:54*	*12/09/24 18:43*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/09/24 08:54*	*12/09/24 18:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**198**		10.0		mg/Kg			12/09/24 17:44	1

Client Sample ID: BH-24 (3.0)
Date Collected: 12/06/24 09:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-15
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 18:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 18:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 18:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/09/24 09:44	12/09/24 18:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/09/24 09:44	12/09/24 18:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:44	12/09/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*12/09/24 09:44*	*12/09/24 18:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/09/24 09:44*	*12/09/24 18:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/09/24 18:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 13:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 13:57	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*12/09/24 08:57*	*12/09/24 13:57*	*1*
o-Terphenyl	*98*		*70 - 130*	*12/09/24 08:57*	*12/09/24 13:57*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-24 (3.0)
Date Collected: 12/06/24 09:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-15
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		10.1		mg/Kg			12/09/24 17:50	1

Client Sample ID: BH-25 (3.0)
Date Collected: 12/06/24 09:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 18:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 18:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 18:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:44	12/09/24 18:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:44	12/09/24 18:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/09/24 09:44*	*12/09/24 18:58*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/09/24 09:44*	*12/09/24 18:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 18:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 14:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 14:43	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*12/09/24 08:57*	*12/09/24 14:43*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/09/24 08:57*	*12/09/24 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269	F1	9.92		mg/Kg			12/09/24 17:55	1

Client Sample ID: SW-14
Date Collected: 12/06/24 09:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-19
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 19:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 19:18	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: SW-14
Date Collected: 12/06/24 09:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-19
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 19:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/09/24 09:44	12/09/24 19:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/09/24 09:44	12/09/24 19:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:44	12/09/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/09/24 09:44*	*12/09/24 19:18*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/09/24 09:44*	*12/09/24 19:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/24 19:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 14:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 14:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 14:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 14:59	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/09/24 08:57*	*12/09/24 14:59*	*1*
o-Terphenyl	*99*		*70 - 130*	*12/09/24 08:57*	*12/09/24 14:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**183**		9.90		mg/Kg			12/09/24 18:11	1

Client Sample ID: SW-7
Date Collected: 12/06/24 09:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-20
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 19:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 19:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 19:39	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:44	12/09/24 19:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:44	12/09/24 19:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:44	12/09/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*12/09/24 09:44*	*12/09/24 19:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/09/24 09:44*	*12/09/24 19:39*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: SW-7

Date Collected: 12/06/24 09:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-20
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/09/24 19:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 15:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 15:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 15:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 15:15	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*12/09/24 08:57*	*12/09/24 15:15*	*1*
o-Terphenyl	*109*		*70 - 130*	*12/09/24 08:57*	*12/09/24 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**209**		10.0		mg/Kg			12/09/24 18:16	1

Client Sample ID: SW-9

Date Collected: 12/06/24 09:50
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 19:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 19:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 19:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:44	12/09/24 19:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:44	12/09/24 19:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/09/24 09:44*	*12/09/24 19:59*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/09/24 09:44*	*12/09/24 19:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 19:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 15:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 15:31	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: SW-9

Date Collected: 12/06/24 09:50
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-21
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 15:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 15:31	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*12/09/24 08:57*	*12/09/24 15:31*	*1*
o-Terphenyl	*111*		*70 - 130*	*12/09/24 08:57*	*12/09/24 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		10.0		mg/Kg			12/09/24 18:32	1

Client Sample ID: SW-10

Date Collected: 12/06/24 09:55
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/24 09:48	12/09/24 12:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/24 09:48	12/09/24 12:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 12:14*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/09/24 09:48*	*12/09/24 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/09/24 12:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 15:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 15:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 15:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 15:47	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*12/09/24 08:57*	*12/09/24 15:47*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/09/24 08:57*	*12/09/24 15:47*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: SW-10
Date Collected: 12/06/24 09:55
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-22
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.4		10.0		mg/Kg			12/09/24 18:37	1

Client Sample ID: BH-26 (2)
Date Collected: 12/06/24 10:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:35	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:48	12/09/24 12:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:48	12/09/24 12:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 12:35*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/09/24 09:48*	*12/09/24 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/09/24 12:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 16:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 16:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 16:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 16:03	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:03*	*1*
o-Terphenyl	*106*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	652		10.1		mg/Kg			12/09/24 18:42	1

Client Sample ID: BH-35 (2)
Date Collected: 12/06/24 10:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-24
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 12:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 12:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-35 (2)

Date Collected: 12/06/24 10:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-24

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 12:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:48	12/09/24 12:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:48	12/09/24 12:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 12:55*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:48*	*12/09/24 12:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/09/24 16:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 16:19	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 16:19	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 16:19	1
Total TPH	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:19*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**539**		9.90		mg/Kg			12/09/24 18:48	1

Client Sample ID: BH-39 (4)

Date Collected: 12/06/24 10:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-25

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 13:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 13:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 13:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/09/24 09:48	12/09/24 13:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/09/24 09:48	12/09/24 13:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 13:16*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:48*	*12/09/24 13:16*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-39 (4)
Date Collected: 12/06/24 10:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-25
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/09/24 13:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 16:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 16:34	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:34*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**527**	**F1**	10.1		mg/Kg			12/09/24 23:27	1

Client Sample ID: BH-40 (4)
Date Collected: 12/06/24 10:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-26
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 13:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 13:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 13:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:48	12/09/24 13:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:48	12/09/24 13:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 13:36*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:48*	*12/09/24 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 13:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 16:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 16:50	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-40 (4)

Date Collected: 12/06/24 10:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-26
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 16:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 16:50	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:50*	*1*
o-Terphenyl	*99*		*70 - 130*	*12/09/24 08:57*	*12/09/24 16:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**446**		10.1		mg/Kg			12/09/24 23:45	1

Client Sample ID: BH-41 (4)

Date Collected: 12/06/24 10:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-27
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 13:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 13:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 13:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/24 09:48	12/09/24 13:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/24 09:48	12/09/24 13:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 13:57*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:48*	*12/09/24 13:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/09/24 13:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 17:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 17:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 17:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 17:22	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*12/09/24 08:57*	*12/09/24 17:22*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/09/24 08:57*	*12/09/24 17:22*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-41 (4)
Date Collected: 12/06/24 10:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-27
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	456		9.92		mg/Kg			12/09/24 23:50	1

Client Sample ID: BH-42 (4)
Date Collected: 12/06/24 10:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-28
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 14:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 14:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 14:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:48	12/09/24 14:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:48	12/09/24 14:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 14:17*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/09/24 09:48*	*12/09/24 14:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 14:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 17:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 17:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 17:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 17:38	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*12/09/24 08:57*	*12/09/24 17:38*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/09/24 08:57*	*12/09/24 17:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		10.1		mg/Kg			12/09/24 23:56	1

Client Sample ID: BH-46 (3)
Date Collected: 12/06/24 10:30
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-29
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 14:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 14:38	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-46 (3)
Date Collected: 12/06/24 10:30
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-29
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 14:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:48	12/09/24 14:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:48	12/09/24 14:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 14:38*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*12/09/24 09:48*	*12/09/24 14:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/09/24 14:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 17:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 17:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*12/09/24 08:57*	*12/09/24 17:55*	*1*
o-Terphenyl	*96*		*70 - 130*	*12/09/24 08:57*	*12/09/24 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**810**		9.94		mg/Kg			12/10/24 00:02	1

Client Sample ID: BH-47 (3)
Date Collected: 12/06/24 10:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-30
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 14:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 14:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 14:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/09/24 09:48	12/09/24 14:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/09/24 09:48	12/09/24 14:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 14:58*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 14:58*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-47 (3)
Date Collected: 12/06/24 10:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-30
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/24 14:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 18:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 18:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 18:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 18:10	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:10*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**485**		9.96		mg/Kg			12/10/24 00:20	1

Client Sample ID: BH-48 (3)
Date Collected: 12/06/24 10:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-31
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 15:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 15:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 15:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/09/24 09:48	12/09/24 15:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/09/24 09:48	12/09/24 15:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 15:18*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/09/24 09:48*	*12/09/24 15:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/09/24 15:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 18:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 18:27	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-48 (3)
Date Collected: 12/06/24 10:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-31
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 18:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 18:27	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 08:57	12/09/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:27*	*1*
o-Terphenyl	*90*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**		10.1		mg/Kg			12/10/24 00:26	1

Client Sample ID: BH-49 (2)
Date Collected: 12/06/24 10:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-32
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 16:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 16:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 16:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:48	12/09/24 16:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:48	12/09/24 16:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 16:52*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/09/24 09:48*	*12/09/24 16:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/09/24 18:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 18:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 18:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 18:43	1
Total TPH	<49.7	U	49.7		mg/Kg		12/09/24 08:57	12/09/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:43*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:43*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-49 (2)
Date Collected: 12/06/24 10:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-32
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		10.0		mg/Kg			12/10/24 00:32	1

Client Sample ID: BH-50 (2)
Date Collected: 12/06/24 10:50
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-33
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 17:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 17:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 17:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:48	12/09/24 17:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:48	12/09/24 17:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 17:13*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 17:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/09/24 17:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 18:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 18:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 18:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 18:58	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:58*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/09/24 08:57*	*12/09/24 18:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		9.98		mg/Kg			12/10/24 00:38	1

Client Sample ID: BH-51 (2)
Date Collected: 12/06/24 10:55
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-34
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 17:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 17:33	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-51 (2)
Date Collected: 12/06/24 10:55
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-34
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 17:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/09/24 09:48	12/09/24 17:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/09/24 09:48	12/09/24 17:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 17:33*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/24 17:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 19:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 19:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 19:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 19:14	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 08:57	12/09/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/09/24 08:57*	*12/09/24 19:14*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/09/24 08:57*	*12/09/24 19:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**308**		10.0		mg/Kg			12/10/24 00:44	1

Client Sample ID: BH-30 (2)
Date Collected: 12/06/24 11:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-35
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 17:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 17:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 17:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/09/24 09:48	12/09/24 17:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/09/24 09:48	12/09/24 17:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 17:54*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 17:54*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-30 (2)

Date Collected: 12/06/24 11:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-35
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/09/24 17:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/09/24 21:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		12/09/24 09:03	12/09/24 21:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/09/24 21:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/09/24 21:21	1
Total TPH	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/09/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/09/24 09:03*	*12/09/24 21:21*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/09/24 09:03*	*12/09/24 21:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		9.94		mg/Kg			12/10/24 00:49	1

Client Sample ID: BH-31 (2)

Date Collected: 12/06/24 11:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-36
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 18:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 18:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 18:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/09/24 09:48	12/09/24 18:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/09/24 09:48	12/09/24 18:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:48	12/09/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 18:14*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/24 18:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 22:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		12/09/24 09:03	12/09/24 22:09	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-31 (2)

Date Collected: 12/06/24 11:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-36
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/09/24 22:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/09/24 22:09	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/09/24 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:09*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**		9.92		mg/Kg			12/10/24 01:07	1

Client Sample ID: BH-32 (2)

Date Collected: 12/06/24 11:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-37
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 18:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 18:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 18:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/09/24 09:48	12/09/24 18:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/09/24 09:48	12/09/24 18:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:48	12/09/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 18:35*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 18:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/09/24 18:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.5**		49.9		mg/Kg			12/09/24 22:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/09/24 09:03	12/09/24 22:25	1
Diesel Range Organics (Over C10-C28)	**53.5**		49.9		mg/Kg		12/09/24 09:03	12/09/24 22:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/09/24 22:25	1
Total TPH	**53.5**		49.9		mg/Kg		12/09/24 09:03	12/09/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:25*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:25*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-32 (2)
Date Collected: 12/06/24 11:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-37
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379		10.1		mg/Kg			12/10/24 01:13	1

Client Sample ID: BH-34 (2)
Date Collected: 12/06/24 11:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-38
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 18:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 18:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 18:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:48	12/09/24 18:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:48	12/09/24 18:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 18:55*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 18:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/09/24 09:03	12/09/24 22:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/09/24 22:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/09/24 22:41	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/09/24 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:41*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	594		9.96		mg/Kg			12/10/24 01:31	1

Client Sample ID: BH-37 (3)
Date Collected: 12/06/24 11:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-39
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 19:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 19:15	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-37 (3)

Date Collected: 12/06/24 11:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-39

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 19:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/09/24 09:48	12/09/24 19:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/09/24 09:48	12/09/24 19:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:48	12/09/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 19:15*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/24 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 22:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		12/09/24 09:03	12/09/24 22:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 22:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 22:56	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:56*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/09/24 09:03*	*12/09/24 22:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**874**		10.1		mg/Kg			12/10/24 01:37	1

Client Sample ID: BH-27 (2)

Date Collected: 12/06/24 11:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-40

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 19:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 19:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 19:36	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:48	12/09/24 19:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:48	12/09/24 19:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:48	12/09/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 19:36*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 19:36*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-27 (2)

Date Collected: 12/06/24 11:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-40
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/09/24 19:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/09/24 23:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/09/24 09:03	12/09/24 23:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/09/24 23:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/09/24 23:13	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/09/24 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/09/24 09:03*	*12/09/24 23:13*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/09/24 09:03*	*12/09/24 23:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**399**		9.98		mg/Kg			12/10/24 01:43	1

Client Sample ID: BH-28 (2)

Date Collected: 12/06/24 11:30
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-41
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 19:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 19:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 19:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:48	12/09/24 19:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:48	12/09/24 19:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*12/09/24 09:48*	*12/09/24 19:56*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/24 09:48*	*12/09/24 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 19:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/09/24 23:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		12/09/24 09:03	12/09/24 23:28	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-28 (2)
Date Collected: 12/06/24 11:30
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-41
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/09/24 23:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/09/24 23:28	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/09/24 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/09/24 09:03*	*12/09/24 23:28*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/09/24 09:03*	*12/09/24 23:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**485**		10.1		mg/Kg			12/10/24 01:48	1

Client Sample ID: BH-29 (2)
Date Collected: 12/06/24 11:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-42
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/24 09:51	12/09/24 12:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/24 09:51	12/09/24 12:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/09/24 09:51*	*12/09/24 12:34*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/09/24 09:51*	*12/09/24 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/09/24 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/09/24 23:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		12/09/24 09:03	12/09/24 23:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 23:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 23:44	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/09/24 09:03*	*12/09/24 23:44*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/09/24 09:03*	*12/09/24 23:44*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-29 (2)
Date Collected: 12/06/24 11:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-42
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		9.94		mg/Kg			12/10/24 01:54	1

Client Sample ID: BH-57 (2)
Date Collected: 12/06/24 11:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-43
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:55	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:51	12/09/24 12:55	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:51	12/09/24 12:55	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/09/24 09:51*	*12/09/24 12:55*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/09/24 09:51*	*12/09/24 12:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/09/24 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/10/24 00:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		12/09/24 09:03	12/10/24 00:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 00:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 00:00	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/09/24 09:03*	*12/10/24 00:00*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/09/24 09:03*	*12/10/24 00:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	534		10.0		mg/Kg			12/10/24 02:00	1

Client Sample ID: BH-58 (2)
Date Collected: 12/06/24 11:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-44
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 13:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 13:15	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-58 (2)
Date Collected: 12/06/24 11:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-44
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 13:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:51	12/09/24 13:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:51	12/09/24 13:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/09/24 09:51*	*12/09/24 13:15*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/09/24 09:51*	*12/09/24 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 13:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/10/24 00:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/09/24 09:03	12/10/24 00:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 00:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 00:16	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*12/09/24 09:03*	*12/10/24 00:16*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/09/24 09:03*	*12/10/24 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**584**		10.0		mg/Kg			12/10/24 02:06	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7441-A-1-D MS	Matrix Spike	107	99
890-7441-A-1-E MSD	Matrix Spike Duplicate	100	100
890-7443-1	BH-6 (4.0)'	120	94
890-7443-2	BH-7 (3.0)'	110	84
890-7443-3	BH-8 (3.0)	116	92
890-7443-4	BH-9 (3)	116	92
890-7443-5	BH-10 (3)	107	88
890-7443-6	BH-11 (3)	99	85
890-7443-8	BH-17 (3)	126	90
890-7443-9	BH-18 (3)	120	88
890-7443-10	BH-19 (3)	117	92
890-7443-11	BH-20 (3)	126	94
890-7443-12	BH-21 (3.0)	121	95
890-7443-13	BH-22 (3.0)	115	93
890-7443-14	BH-23 (3.0)	122	95
890-7443-15	BH-24 (3.0)	123	96
890-7443-16	BH-25 (3.0)	117	97
890-7443-19	SW-14	125	95
890-7443-20	SW-7	129	97
890-7443-21	SW-9	126	95
890-7443-22	SW-10	131 S1+	95
890-7443-22 MS	SW-10	124	94
890-7443-22 MSD	SW-10	128	94
890-7443-23	BH-26 (2)	136 S1+	94
890-7443-24	BH-35 (2)	134 S1+	92
890-7443-25	BH-39 (4)	133 S1+	92
890-7443-26	BH-40 (4)	133 S1+	92
890-7443-27	BH-41 (4)	131 S1+	92
890-7443-28	BH-42 (4)	132 S1+	92
890-7443-29	BH-46 (3)	139 S1+	89
890-7443-30	BH-47 (3)	135 S1+	91
890-7443-31	BH-48 (3)	136 S1+	90
890-7443-32	BH-49 (2)	138 S1+	95
890-7443-33	BH-50 (2)	135 S1+	91
890-7443-34	BH-51 (2)	132 S1+	91
890-7443-35	BH-30 (2)	134 S1+	91
890-7443-36	BH-31 (2)	139 S1+	91
890-7443-37	BH-32 (2)	137 S1+	91
890-7443-38	BH-34 (2)	135 S1+	91
890-7443-39	BH-37 (3)	138 S1+	91
890-7443-40	BH-27 (2)	141 S1+	91
890-7443-41	BH-28 (2)	135 S1+	91
890-7443-42	BH-29 (2)	112	101
890-7443-42 MS	BH-29 (2)	111	102
890-7443-42 MSD	BH-29 (2)	109	101
890-7443-43	BH-57 (2)	107	100
890-7443-44	BH-58 (2)	111	101
LCS 880-97370/1-A	Lab Control Sample	103	97
LCS 880-97371/1-A	Lab Control Sample	126	93

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-97372/1-A	Lab Control Sample	113	100
LCSD 880-97370/2-A	Lab Control Sample Dup	100	98
LCSD 880-97371/2-A	Lab Control Sample Dup	127	90
LCSD 880-97372/2-A	Lab Control Sample Dup	107	102
MB 880-97370/5-A	Method Blank	115	89
MB 880-97371/5-A	Method Blank	122	86
MB 880-97372/5-A	Method Blank	100	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7441-A-1-B MS	Matrix Spike	83	70
890-7441-A-1-C MSD	Matrix Spike Duplicate	83	71
890-7443-1	BH-6 (4.0)'	92	71
890-7443-2	BH-7 (3.0)'	84	66 S1-
890-7443-3	BH-8 (3.0)	86	65 S1-
890-7443-4	BH-9 (3)	97	75
890-7443-5	BH-10 (3)	102	82
890-7443-6	BH-11 (3)	97	79
890-7443-8	BH-17 (3)	98	75
890-7443-9	BH-18 (3)	93	72
890-7443-10	BH-19 (3)	94	73
890-7443-11	BH-20 (3)	89	70
890-7443-12	BH-21 (3.0)	98	76
890-7443-13	BH-22 (3.0)	98	77
890-7443-14	BH-23 (3.0)	90	70
890-7443-15	BH-24 (3.0)	103	98
890-7443-15 MS	BH-24 (3.0)	108	105
890-7443-15 MSD	BH-24 (3.0)	108	106
890-7443-16	BH-25 (3.0)	103	95
890-7443-19	SW-14	106	99
890-7443-20	SW-7	118	109
890-7443-21	SW-9	122	111
890-7443-22	SW-10	111	101
890-7443-23	BH-26 (2)	115	106
890-7443-24	BH-35 (2)	113	104
890-7443-25	BH-39 (4)	112	104
890-7443-26	BH-40 (4)	106	99
890-7443-27	BH-41 (4)	114	105
890-7443-28	BH-42 (4)	94	86
890-7443-29	BH-46 (3)	103	96
890-7443-30	BH-47 (3)	89	82
890-7443-31	BH-48 (3)	98	90
890-7443-32	BH-49 (2)	95	86

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7443-33	BH-50 (2)	90	82
890-7443-34	BH-51 (2)	85	78
890-7443-35	BH-30 (2)	100	78
890-7443-35 MS	BH-30 (2)	103	87
890-7443-35 MSD	BH-30 (2)	102	85
890-7443-36	BH-31 (2)	95	75
890-7443-37	BH-32 (2)	99	78
890-7443-38	BH-34 (2)	96	75
890-7443-39	BH-37 (3)	91	71
890-7443-40	BH-27 (2)	95	72
890-7443-41	BH-28 (2)	97	75
890-7443-42	BH-29 (2)	102	79
890-7443-43	BH-57 (2)	106	84
890-7443-44	BH-58 (2)	99	79
LCS 880-97363/2-A	Lab Control Sample	111	99
LCS 880-97364/2-A	Lab Control Sample	93	93
LCS 880-97365/2-A	Lab Control Sample	129	114
LCSD 880-97363/3-A	Lab Control Sample Dup	103	91
LCSD 880-97364/3-A	Lab Control Sample Dup	106	107
LCSD 880-97365/3-A	Lab Control Sample Dup	136 S1+	121
MB 880-97363/1-A	Method Blank	100	80
MB 880-97364/1-A	Method Blank	130	127
MB 880-97365/1-A	Method Blank	97	77

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97370/5-A
Matrix: Solid
Analysis Batch: 97355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:44	12/09/24 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:44	12/09/24 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/09/24 09:44*	*12/09/24 11:44*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*12/09/24 09:44*	*12/09/24 11:44*	*1*

Lab Sample ID: LCS 880-97370/1-A
Matrix: Solid
Analysis Batch: 97355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1179		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130
Toluene	0.100	0.1099		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2267		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-97370/2-A
Matrix: Solid
Analysis Batch: 97355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1180		mg/Kg		118	70 - 130	0	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	1	35
Toluene	0.100	0.1087		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2219		mg/Kg		111	70 - 130	2	35
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-7441-A-1-D MS
Matrix: Solid
Analysis Batch: 97355

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.1109		mg/Kg		110	70 - 130
Ethylbenzene	<0.00198	U	0.101	0.1066		mg/Kg		105	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7441-A-1-D MS
Matrix: Solid
Analysis Batch: 97355

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00198	U	0.101	0.1036		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2120		mg/Kg		105	70 - 130
o-Xylene	<0.00198	U	0.101	0.1073		mg/Kg		106	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7441-A-1-E MSD
Matrix: Solid
Analysis Batch: 97355

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97370

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1143		mg/Kg		115	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.0998	0.1053		mg/Kg		104	70 - 130	1	35
Toluene	<0.00198	U	0.0998	0.1034		mg/Kg		104	70 - 130	0	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2093		mg/Kg		105	70 - 130	1	35
o-Xylene	<0.00198	U	0.0998	0.1066		mg/Kg		107	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-97371/5-A
Matrix: Solid
Analysis Batch: 97354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97371

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 11:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:48	12/09/24 11:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:48	12/09/24 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:48	12/09/24 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*12/09/24 09:48*	*12/09/24 11:53*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/09/24 09:48*	*12/09/24 11:53*	*1*

Lab Sample ID: LCS 880-97371/1-A
Matrix: Solid
Analysis Batch: 97354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1293		mg/Kg		129	70 - 130
Ethylbenzene	0.100	0.1221		mg/Kg		122	70 - 130
Toluene	0.100	0.1171		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2422		mg/Kg		121	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-97371/1-A
Matrix: Solid
Analysis Batch: 97354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97371

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1213		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-97371/2-A
Matrix: Solid
Analysis Batch: 97354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97371

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1246		mg/Kg		125	70 - 130	4	35
Ethylbenzene			0.100	0.1172		mg/Kg		117	70 - 130	4	35
Toluene			0.100	0.1117		mg/Kg		112	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2316		mg/Kg		116	70 - 130	4	35
o-Xylene			0.100	0.1168		mg/Kg		117	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-7443-22 MS
Matrix: Solid
Analysis Batch: 97354

Client Sample ID: SW-10
Prep Type: Total/NA
Prep Batch: 97371

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.101	0.1273		mg/Kg		126	70 - 130		
Ethylbenzene	<0.00198	U	0.101	0.1180		mg/Kg		117	70 - 130		
Toluene	<0.00198	U	0.101	0.1137		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2316		mg/Kg		115	70 - 130		
o-Xylene	<0.00198	U	0.101	0.1162		mg/Kg		115	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-7443-22 MSD
Matrix: Solid
Analysis Batch: 97354

Client Sample ID: SW-10
Prep Type: Total/NA
Prep Batch: 97371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1218		mg/Kg		122	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.0998	0.1146		mg/Kg		115	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.1094		mg/Kg		110	70 - 130	4	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2249		mg/Kg		113	70 - 130	3	35
o-Xylene	<0.00198	U	0.0998	0.1130		mg/Kg		113	70 - 130	3	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7443-22 MSD
Matrix: Solid
Analysis Batch: 97354

Client Sample ID: SW-10
Prep Type: Total/NA
Prep Batch: 97371

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-97372/5-A
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	12/09/24 09:51	12/09/24 12:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/09/24 09:51	12/09/24 12:13	1

Lab Sample ID: LCS 880-97372/1-A
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1174		mg/Kg		117	70 - 130
Toluene	0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2331		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1304		mg/Kg		130	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-97372/2-A
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97372

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1133		mg/Kg		113	70 - 130	0	35
Ethylbenzene	0.100	0.1156		mg/Kg		116	70 - 130	2	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2296		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1292		mg/Kg		129	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-97372/2-A
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97372

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7443-42 MS
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: BH-29 (2)
Prep Type: Total/NA
Prep Batch: 97372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.1085		mg/Kg		108	70 - 130
Ethylbenzene	<0.00198	U	0.101	0.1088		mg/Kg		108	70 - 130
Toluene	<0.00198	U	0.101	0.1041		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2177		mg/Kg		108	70 - 130
o-Xylene	<0.00198	U	0.101	0.1189		mg/Kg		118	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7443-42 MSD
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: BH-29 (2)
Prep Type: Total/NA
Prep Batch: 97372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1006		mg/Kg		101	70 - 130	8	35
Ethylbenzene	<0.00198	U	0.0998	0.09845		mg/Kg		99	70 - 130	10	35
Toluene	<0.00198	U	0.0998	0.09543		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1963		mg/Kg		98	70 - 130	10	35
o-Xylene	<0.00198	U	0.0998	0.1065		mg/Kg		107	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-97363/1-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	12/09/24 08:54	12/09/24 10:02	1

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-97363/1-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97363

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		70 - 130	12/09/24 08:54	12/09/24 10:02	1

Lab Sample ID: LCS 880-97363/2-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1013		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-97363/3-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97363

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1121		mg/Kg		112	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	914.6		mg/Kg		91	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-7441-A-1-B MS
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	752.2		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	636.4	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	70		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7441-A-1-C MSD
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97363

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	768.6		mg/Kg		77	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	660.1	F1	mg/Kg		66	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Lab Sample ID: MB 880-97364/1-A
Matrix: Solid
Analysis Batch: 97401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 10:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 10:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 10:02	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 08:57	12/09/24 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*12/09/24 08:57*	*12/09/24 10:02*	*1*
o-Terphenyl	*127*		*70 - 130*	*12/09/24 08:57*	*12/09/24 10:02*	*1*

Lab Sample ID: LCS 880-97364/2-A
Matrix: Solid
Analysis Batch: 97401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97364

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	918.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	853.1		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-97364/3-A
Matrix: Solid
Analysis Batch: 97401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97364

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1079		mg/Kg		108	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130	16	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-97364/3-A
Matrix: Solid
Analysis Batch: 97401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97364

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 890-7443-15 MS
Matrix: Solid
Analysis Batch: 97401

Client Sample ID: BH-24 (3.0)
Prep Type: Total/NA
Prep Batch: 97364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	938.6		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	818.6		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-7443-15 MSD
Matrix: Solid
Analysis Batch: 97401

Client Sample ID: BH-24 (3.0)
Prep Type: Total/NA
Prep Batch: 97364

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	907.5		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	997	839.2		mg/Kg		84	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: MB 880-97365/1-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	12/09/24 09:03	12/09/24 20:33	1
o-Terphenyl	77		70 - 130	12/09/24 09:03	12/09/24 20:33	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-97365/2-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97365

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1309	*+	mg/Kg		131	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*129*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Lab Sample ID: LCSD 880-97365/3-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97365

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1345	*+	mg/Kg		135	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1155		mg/Kg		116	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*136*	*S1+*	*70 - 130*
o-Terphenyl	*121*		*70 - 130*

Lab Sample ID: 890-7443-35 MS
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: BH-30 (2)
Prep Type: Total/NA
Prep Batch: 97365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	999	915.8		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	999	737.0		mg/Kg		74	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 890-7443-35 MSD
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: BH-30 (2)
Prep Type: Total/NA
Prep Batch: 97365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	999	921.6		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.7	U	999	698.9		mg/Kg		70	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7443-35 MSD
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: BH-30 (2)
Prep Type: Total/NA
Prep Batch: 97365

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97396/1-A
Matrix: Solid
Analysis Batch: 97408

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/09/24 19:39	1

Lab Sample ID: LCS 880-97396/2-A
Matrix: Solid
Analysis Batch: 97408

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	265.1		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-97396/3-A
Matrix: Solid
Analysis Batch: 97408

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	265.7		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-7443-1 MS
Matrix: Solid
Analysis Batch: 97408

Client Sample ID: BH-6 (4.0)'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	375		248	630.2		mg/Kg		103	90 - 110		

Lab Sample ID: 890-7443-1 MSD
Matrix: Solid
Analysis Batch: 97408

Client Sample ID: BH-6 (4.0)'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	375		248	630.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-97403/1-A
Matrix: Solid
Analysis Batch: 97422

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/09/24 16:25	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-97403/2-A
Matrix: Solid
Analysis Batch: 97422

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	231.2		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-97403/3-A
Matrix: Solid
Analysis Batch: 97422

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	232.1		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-7443-5 MS
Matrix: Solid
Analysis Batch: 97422

Client Sample ID: BH-10 (3)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	392		252	634.4		mg/Kg		96	90 - 110		

Lab Sample ID: 890-7443-5 MSD
Matrix: Solid
Analysis Batch: 97422

Client Sample ID: BH-10 (3)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	392		252	633.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-7443-16 MS
Matrix: Solid
Analysis Batch: 97422

Client Sample ID: BH-25 (3.0)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	269	F1	248	484.2	F1	mg/Kg		87	90 - 110		

Lab Sample ID: 890-7443-16 MSD
Matrix: Solid
Analysis Batch: 97422

Client Sample ID: BH-25 (3.0)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	269	F1	248	484.8	F1	mg/Kg		87	90 - 110	0	20

Lab Sample ID: MB 880-97423/1-A
Matrix: Solid
Analysis Batch: 97441

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/09/24 23:09	1

Lab Sample ID: LCS 880-97423/2-A
Matrix: Solid
Analysis Batch: 97441

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.8		mg/Kg		106	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-97423/3-A
Matrix: Solid
Analysis Batch: 97441

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	265.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-7443-25 MS
Matrix: Solid
Analysis Batch: 97441

Client Sample ID: BH-39 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	527	F1	252	849.7	F1	mg/Kg		128	90 - 110		

Lab Sample ID: 890-7443-25 MSD
Matrix: Solid
Analysis Batch: 97441

Client Sample ID: BH-39 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	527	F1	252	851.6	F1	mg/Kg		129	90 - 110	0	20

Lab Sample ID: 890-7443-35 MS
Matrix: Solid
Analysis Batch: 97441

Client Sample ID: BH-30 (2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	249		249	477.6		mg/Kg		92	90 - 110		

Lab Sample ID: 890-7443-35 MSD
Matrix: Solid
Analysis Batch: 97441

Client Sample ID: BH-30 (2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	249		249	476.7		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 97353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-42	BH-29 (2)	Total/NA	Solid	8021B	97372
890-7443-43	BH-57 (2)	Total/NA	Solid	8021B	97372
890-7443-44	BH-58 (2)	Total/NA	Solid	8021B	97372
MB 880-97372/5-A	Method Blank	Total/NA	Solid	8021B	97372
LCS 880-97372/1-A	Lab Control Sample	Total/NA	Solid	8021B	97372
LCSD 880-97372/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97372
890-7443-42 MS	BH-29 (2)	Total/NA	Solid	8021B	97372
890-7443-42 MSD	BH-29 (2)	Total/NA	Solid	8021B	97372

Analysis Batch: 97354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-22	SW-10	Total/NA	Solid	8021B	97371
890-7443-23	BH-26 (2)	Total/NA	Solid	8021B	97371
890-7443-24	BH-35 (2)	Total/NA	Solid	8021B	97371
890-7443-25	BH-39 (4)	Total/NA	Solid	8021B	97371
890-7443-26	BH-40 (4)	Total/NA	Solid	8021B	97371
890-7443-27	BH-41 (4)	Total/NA	Solid	8021B	97371
890-7443-28	BH-42 (4)	Total/NA	Solid	8021B	97371
890-7443-29	BH-46 (3)	Total/NA	Solid	8021B	97371
890-7443-30	BH-47 (3)	Total/NA	Solid	8021B	97371
890-7443-31	BH-48 (3)	Total/NA	Solid	8021B	97371
890-7443-32	BH-49 (2)	Total/NA	Solid	8021B	97371
890-7443-33	BH-50 (2)	Total/NA	Solid	8021B	97371
890-7443-34	BH-51 (2)	Total/NA	Solid	8021B	97371
890-7443-35	BH-30 (2)	Total/NA	Solid	8021B	97371
890-7443-36	BH-31 (2)	Total/NA	Solid	8021B	97371
890-7443-37	BH-32 (2)	Total/NA	Solid	8021B	97371
890-7443-38	BH-34 (2)	Total/NA	Solid	8021B	97371
890-7443-39	BH-37 (3)	Total/NA	Solid	8021B	97371
890-7443-40	BH-27 (2)	Total/NA	Solid	8021B	97371
890-7443-41	BH-28 (2)	Total/NA	Solid	8021B	97371
MB 880-97371/5-A	Method Blank	Total/NA	Solid	8021B	97371
LCS 880-97371/1-A	Lab Control Sample	Total/NA	Solid	8021B	97371
LCSD 880-97371/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97371
890-7443-22 MS	SW-10	Total/NA	Solid	8021B	97371
890-7443-22 MSD	SW-10	Total/NA	Solid	8021B	97371

Analysis Batch: 97355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Total/NA	Solid	8021B	97370
890-7443-2	BH-7 (3.0)'	Total/NA	Solid	8021B	97370
890-7443-3	BH-8 (3.0)	Total/NA	Solid	8021B	97370
890-7443-4	BH-9 (3)	Total/NA	Solid	8021B	97370
890-7443-5	BH-10 (3)	Total/NA	Solid	8021B	97370
890-7443-6	BH-11 (3)	Total/NA	Solid	8021B	97370
890-7443-8	BH-17 (3)	Total/NA	Solid	8021B	97370
890-7443-9	BH-18 (3)	Total/NA	Solid	8021B	97370
890-7443-10	BH-19 (3)	Total/NA	Solid	8021B	97370
890-7443-11	BH-20 (3)	Total/NA	Solid	8021B	97370
890-7443-12	BH-21 (3.0)	Total/NA	Solid	8021B	97370
890-7443-13	BH-22 (3.0)	Total/NA	Solid	8021B	97370

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 97355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-14	BH-23 (3.0)	Total/NA	Solid	8021B	97370
890-7443-15	BH-24 (3.0)	Total/NA	Solid	8021B	97370
890-7443-16	BH-25 (3.0)	Total/NA	Solid	8021B	97370
890-7443-19	SW-14	Total/NA	Solid	8021B	97370
890-7443-20	SW-7	Total/NA	Solid	8021B	97370
890-7443-21	SW-9	Total/NA	Solid	8021B	97370
MB 880-97370/5-A	Method Blank	Total/NA	Solid	8021B	97370
LCS 880-97370/1-A	Lab Control Sample	Total/NA	Solid	8021B	97370
LCSD 880-97370/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97370
890-7441-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	97370
890-7441-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97370

Prep Batch: 97370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Total/NA	Solid	5035	
890-7443-2	BH-7 (3.0)'	Total/NA	Solid	5035	
890-7443-3	BH-8 (3.0)	Total/NA	Solid	5035	
890-7443-4	BH-9 (3)	Total/NA	Solid	5035	
890-7443-5	BH-10 (3)	Total/NA	Solid	5035	
890-7443-6	BH-11 (3)	Total/NA	Solid	5035	
890-7443-8	BH-17 (3)	Total/NA	Solid	5035	
890-7443-9	BH-18 (3)	Total/NA	Solid	5035	
890-7443-10	BH-19 (3)	Total/NA	Solid	5035	
890-7443-11	BH-20 (3)	Total/NA	Solid	5035	
890-7443-12	BH-21 (3.0)	Total/NA	Solid	5035	
890-7443-13	BH-22 (3.0)	Total/NA	Solid	5035	
890-7443-14	BH-23 (3.0)	Total/NA	Solid	5035	
890-7443-15	BH-24 (3.0)	Total/NA	Solid	5035	
890-7443-16	BH-25 (3.0)	Total/NA	Solid	5035	
890-7443-19	SW-14	Total/NA	Solid	5035	
890-7443-20	SW-7	Total/NA	Solid	5035	
890-7443-21	SW-9	Total/NA	Solid	5035	
MB 880-97370/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97370/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97370/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7441-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7441-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 97371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-22	SW-10	Total/NA	Solid	5035	
890-7443-23	BH-26 (2)	Total/NA	Solid	5035	
890-7443-24	BH-35 (2)	Total/NA	Solid	5035	
890-7443-25	BH-39 (4)	Total/NA	Solid	5035	
890-7443-26	BH-40 (4)	Total/NA	Solid	5035	
890-7443-27	BH-41 (4)	Total/NA	Solid	5035	
890-7443-28	BH-42 (4)	Total/NA	Solid	5035	
890-7443-29	BH-46 (3)	Total/NA	Solid	5035	
890-7443-30	BH-47 (3)	Total/NA	Solid	5035	
890-7443-31	BH-48 (3)	Total/NA	Solid	5035	
890-7443-32	BH-49 (2)	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 97371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-33	BH-50 (2)	Total/NA	Solid	5035	
890-7443-34	BH-51 (2)	Total/NA	Solid	5035	
890-7443-35	BH-30 (2)	Total/NA	Solid	5035	
890-7443-36	BH-31 (2)	Total/NA	Solid	5035	
890-7443-37	BH-32 (2)	Total/NA	Solid	5035	
890-7443-38	BH-34 (2)	Total/NA	Solid	5035	
890-7443-39	BH-37 (3)	Total/NA	Solid	5035	
890-7443-40	BH-27 (2)	Total/NA	Solid	5035	
890-7443-41	BH-28 (2)	Total/NA	Solid	5035	
MB 880-97371/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97371/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97371/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7443-22 MS	SW-10	Total/NA	Solid	5035	
890-7443-22 MSD	SW-10	Total/NA	Solid	5035	

Prep Batch: 97372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-42	BH-29 (2)	Total/NA	Solid	5035	
890-7443-43	BH-57 (2)	Total/NA	Solid	5035	
890-7443-44	BH-58 (2)	Total/NA	Solid	5035	
MB 880-97372/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97372/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97372/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7443-42 MS	BH-29 (2)	Total/NA	Solid	5035	
890-7443-42 MSD	BH-29 (2)	Total/NA	Solid	5035	

Analysis Batch: 97498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Total/NA	Solid	Total BTEX	
890-7443-2	BH-7 (3.0)'	Total/NA	Solid	Total BTEX	
890-7443-3	BH-8 (3.0)	Total/NA	Solid	Total BTEX	
890-7443-4	BH-9 (3)	Total/NA	Solid	Total BTEX	
890-7443-5	BH-10 (3)	Total/NA	Solid	Total BTEX	
890-7443-6	BH-11 (3)	Total/NA	Solid	Total BTEX	
890-7443-8	BH-17 (3)	Total/NA	Solid	Total BTEX	
890-7443-9	BH-18 (3)	Total/NA	Solid	Total BTEX	
890-7443-10	BH-19 (3)	Total/NA	Solid	Total BTEX	
890-7443-11	BH-20 (3)	Total/NA	Solid	Total BTEX	
890-7443-12	BH-21 (3.0)	Total/NA	Solid	Total BTEX	
890-7443-13	BH-22 (3.0)	Total/NA	Solid	Total BTEX	
890-7443-14	BH-23 (3.0)	Total/NA	Solid	Total BTEX	
890-7443-15	BH-24 (3.0)	Total/NA	Solid	Total BTEX	
890-7443-16	BH-25 (3.0)	Total/NA	Solid	Total BTEX	
890-7443-19	SW-14	Total/NA	Solid	Total BTEX	
890-7443-20	SW-7	Total/NA	Solid	Total BTEX	
890-7443-21	SW-9	Total/NA	Solid	Total BTEX	
890-7443-22	SW-10	Total/NA	Solid	Total BTEX	
890-7443-23	BH-26 (2)	Total/NA	Solid	Total BTEX	
890-7443-24	BH-35 (2)	Total/NA	Solid	Total BTEX	
890-7443-25	BH-39 (4)	Total/NA	Solid	Total BTEX	
890-7443-26	BH-40 (4)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 97498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-27	BH-41 (4)	Total/NA	Solid	Total BTEX	
890-7443-28	BH-42 (4)	Total/NA	Solid	Total BTEX	
890-7443-29	BH-46 (3)	Total/NA	Solid	Total BTEX	
890-7443-30	BH-47 (3)	Total/NA	Solid	Total BTEX	
890-7443-31	BH-48 (3)	Total/NA	Solid	Total BTEX	
890-7443-32	BH-49 (2)	Total/NA	Solid	Total BTEX	
890-7443-33	BH-50 (2)	Total/NA	Solid	Total BTEX	
890-7443-34	BH-51 (2)	Total/NA	Solid	Total BTEX	
890-7443-35	BH-30 (2)	Total/NA	Solid	Total BTEX	
890-7443-36	BH-31 (2)	Total/NA	Solid	Total BTEX	
890-7443-37	BH-32 (2)	Total/NA	Solid	Total BTEX	
890-7443-38	BH-34 (2)	Total/NA	Solid	Total BTEX	
890-7443-39	BH-37 (3)	Total/NA	Solid	Total BTEX	
890-7443-40	BH-27 (2)	Total/NA	Solid	Total BTEX	
890-7443-41	BH-28 (2)	Total/NA	Solid	Total BTEX	
890-7443-42	BH-29 (2)	Total/NA	Solid	Total BTEX	
890-7443-43	BH-57 (2)	Total/NA	Solid	Total BTEX	
890-7443-44	BH-58 (2)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Total/NA	Solid	8015NM Prep	
890-7443-2	BH-7 (3.0)'	Total/NA	Solid	8015NM Prep	
890-7443-3	BH-8 (3.0)	Total/NA	Solid	8015NM Prep	
890-7443-4	BH-9 (3)	Total/NA	Solid	8015NM Prep	
890-7443-5	BH-10 (3)	Total/NA	Solid	8015NM Prep	
890-7443-6	BH-11 (3)	Total/NA	Solid	8015NM Prep	
890-7443-8	BH-17 (3)	Total/NA	Solid	8015NM Prep	
890-7443-9	BH-18 (3)	Total/NA	Solid	8015NM Prep	
890-7443-10	BH-19 (3)	Total/NA	Solid	8015NM Prep	
890-7443-11	BH-20 (3)	Total/NA	Solid	8015NM Prep	
890-7443-12	BH-21 (3.0)	Total/NA	Solid	8015NM Prep	
890-7443-13	BH-22 (3.0)	Total/NA	Solid	8015NM Prep	
890-7443-14	BH-23 (3.0)	Total/NA	Solid	8015NM Prep	
MB 880-97363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7441-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7441-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 97364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-15	BH-24 (3.0)	Total/NA	Solid	8015NM Prep	
890-7443-16	BH-25 (3.0)	Total/NA	Solid	8015NM Prep	
890-7443-19	SW-14	Total/NA	Solid	8015NM Prep	
890-7443-20	SW-7	Total/NA	Solid	8015NM Prep	
890-7443-21	SW-9	Total/NA	Solid	8015NM Prep	
890-7443-22	SW-10	Total/NA	Solid	8015NM Prep	
890-7443-23	BH-26 (2)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 97364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-24	BH-35 (2)	Total/NA	Solid	8015NM Prep	
890-7443-25	BH-39 (4)	Total/NA	Solid	8015NM Prep	
890-7443-26	BH-40 (4)	Total/NA	Solid	8015NM Prep	
890-7443-27	BH-41 (4)	Total/NA	Solid	8015NM Prep	
890-7443-28	BH-42 (4)	Total/NA	Solid	8015NM Prep	
890-7443-29	BH-46 (3)	Total/NA	Solid	8015NM Prep	
890-7443-30	BH-47 (3)	Total/NA	Solid	8015NM Prep	
890-7443-31	BH-48 (3)	Total/NA	Solid	8015NM Prep	
890-7443-32	BH-49 (2)	Total/NA	Solid	8015NM Prep	
890-7443-33	BH-50 (2)	Total/NA	Solid	8015NM Prep	
890-7443-34	BH-51 (2)	Total/NA	Solid	8015NM Prep	
MB 880-97364/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97364/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97364/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7443-15 MS	BH-24 (3.0)	Total/NA	Solid	8015NM Prep	
890-7443-15 MSD	BH-24 (3.0)	Total/NA	Solid	8015NM Prep	

Prep Batch: 97365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-35	BH-30 (2)	Total/NA	Solid	8015NM Prep	
890-7443-36	BH-31 (2)	Total/NA	Solid	8015NM Prep	
890-7443-37	BH-32 (2)	Total/NA	Solid	8015NM Prep	
890-7443-38	BH-34 (2)	Total/NA	Solid	8015NM Prep	
890-7443-39	BH-37 (3)	Total/NA	Solid	8015NM Prep	
890-7443-40	BH-27 (2)	Total/NA	Solid	8015NM Prep	
890-7443-41	BH-28 (2)	Total/NA	Solid	8015NM Prep	
890-7443-42	BH-29 (2)	Total/NA	Solid	8015NM Prep	
890-7443-43	BH-57 (2)	Total/NA	Solid	8015NM Prep	
890-7443-44	BH-58 (2)	Total/NA	Solid	8015NM Prep	
MB 880-97365/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97365/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7443-35 MS	BH-30 (2)	Total/NA	Solid	8015NM Prep	
890-7443-35 MSD	BH-30 (2)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Total/NA	Solid	8015B NM	97363
890-7443-2	BH-7 (3.0)'	Total/NA	Solid	8015B NM	97363
890-7443-3	BH-8 (3.0)	Total/NA	Solid	8015B NM	97363
890-7443-4	BH-9 (3)	Total/NA	Solid	8015B NM	97363
890-7443-5	BH-10 (3)	Total/NA	Solid	8015B NM	97363
890-7443-6	BH-11 (3)	Total/NA	Solid	8015B NM	97363
890-7443-8	BH-17 (3)	Total/NA	Solid	8015B NM	97363
890-7443-9	BH-18 (3)	Total/NA	Solid	8015B NM	97363
890-7443-10	BH-19 (3)	Total/NA	Solid	8015B NM	97363
890-7443-11	BH-20 (3)	Total/NA	Solid	8015B NM	97363
890-7443-12	BH-21 (3.0)	Total/NA	Solid	8015B NM	97363
890-7443-13	BH-22 (3.0)	Total/NA	Solid	8015B NM	97363
890-7443-14	BH-23 (3.0)	Total/NA	Solid	8015B NM	97363
890-7443-35	BH-30 (2)	Total/NA	Solid	8015B NM	97365

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 97399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-36	BH-31 (2)	Total/NA	Solid	8015B NM	97365
890-7443-37	BH-32 (2)	Total/NA	Solid	8015B NM	97365
890-7443-38	BH-34 (2)	Total/NA	Solid	8015B NM	97365
890-7443-39	BH-37 (3)	Total/NA	Solid	8015B NM	97365
890-7443-40	BH-27 (2)	Total/NA	Solid	8015B NM	97365
890-7443-41	BH-28 (2)	Total/NA	Solid	8015B NM	97365
890-7443-42	BH-29 (2)	Total/NA	Solid	8015B NM	97365
890-7443-43	BH-57 (2)	Total/NA	Solid	8015B NM	97365
890-7443-44	BH-58 (2)	Total/NA	Solid	8015B NM	97365
MB 880-97363/1-A	Method Blank	Total/NA	Solid	8015B NM	97363
MB 880-97365/1-A	Method Blank	Total/NA	Solid	8015B NM	97365
LCS 880-97363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97363
LCS 880-97365/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97365
LCSD 880-97363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97363
LCSD 880-97365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97365
890-7441-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97363
890-7441-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97363
890-7443-35 MS	BH-30 (2)	Total/NA	Solid	8015B NM	97365
890-7443-35 MSD	BH-30 (2)	Total/NA	Solid	8015B NM	97365

Analysis Batch: 97401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-15	BH-24 (3.0)	Total/NA	Solid	8015B NM	97364
890-7443-16	BH-25 (3.0)	Total/NA	Solid	8015B NM	97364
890-7443-19	SW-14	Total/NA	Solid	8015B NM	97364
890-7443-20	SW-7	Total/NA	Solid	8015B NM	97364
890-7443-21	SW-9	Total/NA	Solid	8015B NM	97364
890-7443-22	SW-10	Total/NA	Solid	8015B NM	97364
890-7443-23	BH-26 (2)	Total/NA	Solid	8015B NM	97364
890-7443-24	BH-35 (2)	Total/NA	Solid	8015B NM	97364
890-7443-25	BH-39 (4)	Total/NA	Solid	8015B NM	97364
890-7443-26	BH-40 (4)	Total/NA	Solid	8015B NM	97364
890-7443-27	BH-41 (4)	Total/NA	Solid	8015B NM	97364
890-7443-28	BH-42 (4)	Total/NA	Solid	8015B NM	97364
890-7443-29	BH-46 (3)	Total/NA	Solid	8015B NM	97364
890-7443-30	BH-47 (3)	Total/NA	Solid	8015B NM	97364
890-7443-31	BH-48 (3)	Total/NA	Solid	8015B NM	97364
890-7443-32	BH-49 (2)	Total/NA	Solid	8015B NM	97364
890-7443-33	BH-50 (2)	Total/NA	Solid	8015B NM	97364
890-7443-34	BH-51 (2)	Total/NA	Solid	8015B NM	97364
MB 880-97364/1-A	Method Blank	Total/NA	Solid	8015B NM	97364
LCS 880-97364/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97364
LCSD 880-97364/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97364
890-7443-15 MS	BH-24 (3.0)	Total/NA	Solid	8015B NM	97364
890-7443-15 MSD	BH-24 (3.0)	Total/NA	Solid	8015B NM	97364

Analysis Batch: 97499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Total/NA	Solid	8015 NM	
890-7443-2	BH-7 (3.0)'	Total/NA	Solid	8015 NM	
890-7443-3	BH-8 (3.0)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 97499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-4	BH-9 (3)	Total/NA	Solid	8015 NM	
890-7443-5	BH-10 (3)	Total/NA	Solid	8015 NM	
890-7443-6	BH-11 (3)	Total/NA	Solid	8015 NM	
890-7443-8	BH-17 (3)	Total/NA	Solid	8015 NM	
890-7443-9	BH-18 (3)	Total/NA	Solid	8015 NM	
890-7443-10	BH-19 (3)	Total/NA	Solid	8015 NM	
890-7443-11	BH-20 (3)	Total/NA	Solid	8015 NM	
890-7443-12	BH-21 (3.0)	Total/NA	Solid	8015 NM	
890-7443-13	BH-22 (3.0)	Total/NA	Solid	8015 NM	
890-7443-14	BH-23 (3.0)	Total/NA	Solid	8015 NM	
890-7443-15	BH-24 (3.0)	Total/NA	Solid	8015 NM	
890-7443-16	BH-25 (3.0)	Total/NA	Solid	8015 NM	
890-7443-19	SW-14	Total/NA	Solid	8015 NM	
890-7443-20	SW-7	Total/NA	Solid	8015 NM	
890-7443-21	SW-9	Total/NA	Solid	8015 NM	
890-7443-22	SW-10	Total/NA	Solid	8015 NM	
890-7443-23	BH-26 (2)	Total/NA	Solid	8015 NM	
890-7443-24	BH-35 (2)	Total/NA	Solid	8015 NM	
890-7443-25	BH-39 (4)	Total/NA	Solid	8015 NM	
890-7443-26	BH-40 (4)	Total/NA	Solid	8015 NM	
890-7443-27	BH-41 (4)	Total/NA	Solid	8015 NM	
890-7443-28	BH-42 (4)	Total/NA	Solid	8015 NM	
890-7443-29	BH-46 (3)	Total/NA	Solid	8015 NM	
890-7443-30	BH-47 (3)	Total/NA	Solid	8015 NM	
890-7443-31	BH-48 (3)	Total/NA	Solid	8015 NM	
890-7443-32	BH-49 (2)	Total/NA	Solid	8015 NM	
890-7443-33	BH-50 (2)	Total/NA	Solid	8015 NM	
890-7443-34	BH-51 (2)	Total/NA	Solid	8015 NM	
890-7443-35	BH-30 (2)	Total/NA	Solid	8015 NM	
890-7443-36	BH-31 (2)	Total/NA	Solid	8015 NM	
890-7443-37	BH-32 (2)	Total/NA	Solid	8015 NM	
890-7443-38	BH-34 (2)	Total/NA	Solid	8015 NM	
890-7443-39	BH-37 (3)	Total/NA	Solid	8015 NM	
890-7443-40	BH-27 (2)	Total/NA	Solid	8015 NM	
890-7443-41	BH-28 (2)	Total/NA	Solid	8015 NM	
890-7443-42	BH-29 (2)	Total/NA	Solid	8015 NM	
890-7443-43	BH-57 (2)	Total/NA	Solid	8015 NM	
890-7443-44	BH-58 (2)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Soluble	Solid	DI Leach	
890-7443-2	BH-7 (3.0)'	Soluble	Solid	DI Leach	
890-7443-3	BH-8 (3.0)	Soluble	Solid	DI Leach	
890-7443-4	BH-9 (3)	Soluble	Solid	DI Leach	
MB 880-97396/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97396/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97396/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7443-1 MS	BH-6 (4.0)'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 97396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1 MSD	BH-6 (4.0)'	Soluble	Solid	DI Leach	

Leach Batch: 97403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-5	BH-10 (3)	Soluble	Solid	DI Leach	
890-7443-6	BH-11 (3)	Soluble	Solid	DI Leach	
890-7443-8	BH-17 (3)	Soluble	Solid	DI Leach	
890-7443-9	BH-18 (3)	Soluble	Solid	DI Leach	
890-7443-10	BH-19 (3)	Soluble	Solid	DI Leach	
890-7443-11	BH-20 (3)	Soluble	Solid	DI Leach	
890-7443-12	BH-21 (3.0)	Soluble	Solid	DI Leach	
890-7443-13	BH-22 (3.0)	Soluble	Solid	DI Leach	
890-7443-14	BH-23 (3.0)	Soluble	Solid	DI Leach	
890-7443-15	BH-24 (3.0)	Soluble	Solid	DI Leach	
890-7443-16	BH-25 (3.0)	Soluble	Solid	DI Leach	
890-7443-19	SW-14	Soluble	Solid	DI Leach	
890-7443-20	SW-7	Soluble	Solid	DI Leach	
890-7443-21	SW-9	Soluble	Solid	DI Leach	
890-7443-22	SW-10	Soluble	Solid	DI Leach	
890-7443-23	BH-26 (2)	Soluble	Solid	DI Leach	
890-7443-24	BH-35 (2)	Soluble	Solid	DI Leach	
MB 880-97403/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97403/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97403/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7443-5 MS	BH-10 (3)	Soluble	Solid	DI Leach	
890-7443-5 MSD	BH-10 (3)	Soluble	Solid	DI Leach	
890-7443-16 MS	BH-25 (3.0)	Soluble	Solid	DI Leach	
890-7443-16 MSD	BH-25 (3.0)	Soluble	Solid	DI Leach	

Analysis Batch: 97408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-1	BH-6 (4.0)'	Soluble	Solid	300.0	97396
890-7443-2	BH-7 (3.0)'	Soluble	Solid	300.0	97396
890-7443-3	BH-8 (3.0)	Soluble	Solid	300.0	97396
890-7443-4	BH-9 (3)	Soluble	Solid	300.0	97396
MB 880-97396/1-A	Method Blank	Soluble	Solid	300.0	97396
LCS 880-97396/2-A	Lab Control Sample	Soluble	Solid	300.0	97396
LCSD 880-97396/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97396
890-7443-1 MS	BH-6 (4.0)'	Soluble	Solid	300.0	97396
890-7443-1 MSD	BH-6 (4.0)'	Soluble	Solid	300.0	97396

Analysis Batch: 97422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-5	BH-10 (3)	Soluble	Solid	300.0	97403
890-7443-6	BH-11 (3)	Soluble	Solid	300.0	97403
890-7443-8	BH-17 (3)	Soluble	Solid	300.0	97403
890-7443-9	BH-18 (3)	Soluble	Solid	300.0	97403
890-7443-10	BH-19 (3)	Soluble	Solid	300.0	97403
890-7443-11	BH-20 (3)	Soluble	Solid	300.0	97403
890-7443-12	BH-21 (3.0)	Soluble	Solid	300.0	97403
890-7443-13	BH-22 (3.0)	Soluble	Solid	300.0	97403

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 97422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-14	BH-23 (3.0)	Soluble	Solid	300.0	97403
890-7443-15	BH-24 (3.0)	Soluble	Solid	300.0	97403
890-7443-16	BH-25 (3.0)	Soluble	Solid	300.0	97403
890-7443-19	SW-14	Soluble	Solid	300.0	97403
890-7443-20	SW-7	Soluble	Solid	300.0	97403
890-7443-21	SW-9	Soluble	Solid	300.0	97403
890-7443-22	SW-10	Soluble	Solid	300.0	97403
890-7443-23	BH-26 (2)	Soluble	Solid	300.0	97403
890-7443-24	BH-35 (2)	Soluble	Solid	300.0	97403
MB 880-97403/1-A	Method Blank	Soluble	Solid	300.0	97403
LCS 880-97403/2-A	Lab Control Sample	Soluble	Solid	300.0	97403
LCSD 880-97403/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97403
890-7443-5 MS	BH-10 (3)	Soluble	Solid	300.0	97403
890-7443-5 MSD	BH-10 (3)	Soluble	Solid	300.0	97403
890-7443-16 MS	BH-25 (3.0)	Soluble	Solid	300.0	97403
890-7443-16 MSD	BH-25 (3.0)	Soluble	Solid	300.0	97403

Leach Batch: 97423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-25	BH-39 (4)	Soluble	Solid	DI Leach	
890-7443-26	BH-40 (4)	Soluble	Solid	DI Leach	
890-7443-27	BH-41 (4)	Soluble	Solid	DI Leach	
890-7443-28	BH-42 (4)	Soluble	Solid	DI Leach	
890-7443-29	BH-46 (3)	Soluble	Solid	DI Leach	
890-7443-30	BH-47 (3)	Soluble	Solid	DI Leach	
890-7443-31	BH-48 (3)	Soluble	Solid	DI Leach	
890-7443-32	BH-49 (2)	Soluble	Solid	DI Leach	
890-7443-33	BH-50 (2)	Soluble	Solid	DI Leach	
890-7443-34	BH-51 (2)	Soluble	Solid	DI Leach	
890-7443-35	BH-30 (2)	Soluble	Solid	DI Leach	
890-7443-36	BH-31 (2)	Soluble	Solid	DI Leach	
890-7443-37	BH-32 (2)	Soluble	Solid	DI Leach	
890-7443-38	BH-34 (2)	Soluble	Solid	DI Leach	
890-7443-39	BH-37 (3)	Soluble	Solid	DI Leach	
890-7443-40	BH-27 (2)	Soluble	Solid	DI Leach	
890-7443-41	BH-28 (2)	Soluble	Solid	DI Leach	
890-7443-42	BH-29 (2)	Soluble	Solid	DI Leach	
890-7443-43	BH-57 (2)	Soluble	Solid	DI Leach	
890-7443-44	BH-58 (2)	Soluble	Solid	DI Leach	
MB 880-97423/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97423/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97423/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7443-25 MS	BH-39 (4)	Soluble	Solid	DI Leach	
890-7443-25 MSD	BH-39 (4)	Soluble	Solid	DI Leach	
890-7443-35 MS	BH-30 (2)	Soluble	Solid	DI Leach	
890-7443-35 MSD	BH-30 (2)	Soluble	Solid	DI Leach	

Analysis Batch: 97441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-25	BH-39 (4)	Soluble	Solid	300.0	97423
890-7443-26	BH-40 (4)	Soluble	Solid	300.0	97423

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 97441 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7443-27	BH-41 (4)	Soluble	Solid	300.0	97423
890-7443-28	BH-42 (4)	Soluble	Solid	300.0	97423
890-7443-29	BH-46 (3)	Soluble	Solid	300.0	97423
890-7443-30	BH-47 (3)	Soluble	Solid	300.0	97423
890-7443-31	BH-48 (3)	Soluble	Solid	300.0	97423
890-7443-32	BH-49 (2)	Soluble	Solid	300.0	97423
890-7443-33	BH-50 (2)	Soluble	Solid	300.0	97423
890-7443-34	BH-51 (2)	Soluble	Solid	300.0	97423
890-7443-35	BH-30 (2)	Soluble	Solid	300.0	97423
890-7443-36	BH-31 (2)	Soluble	Solid	300.0	97423
890-7443-37	BH-32 (2)	Soluble	Solid	300.0	97423
890-7443-38	BH-34 (2)	Soluble	Solid	300.0	97423
890-7443-39	BH-37 (3)	Soluble	Solid	300.0	97423
890-7443-40	BH-27 (2)	Soluble	Solid	300.0	97423
890-7443-41	BH-28 (2)	Soluble	Solid	300.0	97423
890-7443-42	BH-29 (2)	Soluble	Solid	300.0	97423
890-7443-43	BH-57 (2)	Soluble	Solid	300.0	97423
890-7443-44	BH-58 (2)	Soluble	Solid	300.0	97423
MB 880-97423/1-A	Method Blank	Soluble	Solid	300.0	97423
LCS 880-97423/2-A	Lab Control Sample	Soluble	Solid	300.0	97423
LCSD 880-97423/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97423
890-7443-25 MS	BH-39 (4)	Soluble	Solid	300.0	97423
890-7443-25 MSD	BH-39 (4)	Soluble	Solid	300.0	97423
890-7443-35 MS	BH-30 (2)	Soluble	Solid	300.0	97423
890-7443-35 MSD	BH-30 (2)	Soluble	Solid	300.0	97423

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-6 (4.0)'
Date Collected: 12/06/24 08:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 12:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 15:15	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97396	12/09/24 10:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97408	12/09/24 20:00	CH	EET MID

Client Sample ID: BH-7 (3.0)'
Date Collected: 12/06/24 08:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 15:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 15:31	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97396	12/09/24 10:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97408	12/09/24 20:17	CH	EET MID

Client Sample ID: BH-8 (3.0)
Date Collected: 12/06/24 08:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 13:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 15:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 15:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97396	12/09/24 10:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97408	12/09/24 20:23	CH	EET MID

Client Sample ID: BH-9 (3)
Date Collected: 12/06/24 08:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 13:48	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-9 (3)
Date Collected: 12/06/24 08:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 16:03	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97396	12/09/24 10:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97408	12/09/24 20:29	CH	EET MID

Client Sample ID: BH-10 (3)
Date Collected: 12/06/24 08:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 16:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 16:41	SMC	EET MID

Client Sample ID: BH-11 (3)
Date Collected: 12/06/24 08:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 16:34	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 16:57	SMC	EET MID

Client Sample ID: BH-17 (3)
Date Collected: 12/06/24 08:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 14:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 16:50	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-17 (3)
Date Collected: 12/06/24 08:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:02	SMC	EET MID

Client Sample ID: BH-18 (3)
Date Collected: 12/06/24 08:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 15:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 15:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 17:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 17:22	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:08	SMC	EET MID

Client Sample ID: BH-19 (3)
Date Collected: 12/06/24 08:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 16:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 16:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 17:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 17:38	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:13	SMC	EET MID

Client Sample ID: BH-20 (3)
Date Collected: 12/06/24 09:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 17:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 17:55	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:29	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-21 (3.0)
Date Collected: 12/06/24 09:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 17:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 18:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 18:10	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:34	SMC	EET MID

Client Sample ID: BH-22 (3.0)
Date Collected: 12/06/24 09:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 17:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 18:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 18:27	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:39	SMC	EET MID

Client Sample ID: BH-23 (3.0)
Date Collected: 12/06/24 09:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 18:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 18:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 18:43	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:44	SMC	EET MID

Client Sample ID: BH-24 (3.0)
Date Collected: 12/06/24 09:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 18:37	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-24 (3.0)
Date Collected: 12/06/24 09:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			97499	12/09/24 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 13:57	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:50	SMC	EET MID

Client Sample ID: BH-25 (3.0)
Date Collected: 12/06/24 09:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 14:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 14:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 17:55	SMC	EET MID

Client Sample ID: SW-14
Date Collected: 12/06/24 09:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 14:59	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 18:11	SMC	EET MID

Client Sample ID: SW-7
Date Collected: 12/06/24 09:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 19:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 15:15	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: SW-7
Date Collected: 12/06/24 09:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 18:16	SMC	EET MID

Client Sample ID: SW-9
Date Collected: 12/06/24 09:50
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97370	12/09/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97355	12/09/24 19:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 19:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 15:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 15:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 18:32	SMC	EET MID

Client Sample ID: SW-10
Date Collected: 12/06/24 09:55
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 15:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 15:47	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 18:37	SMC	EET MID

Client Sample ID: BH-26 (2)
Date Collected: 12/06/24 10:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 16:03	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 18:42	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-35 (2)
Date Collected: 12/06/24 10:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 16:19	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97403	12/09/24 11:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97422	12/09/24 18:48	SMC	EET MID

Client Sample ID: BH-39 (4)
Date Collected: 12/06/24 10:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 13:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 16:34	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/09/24 23:27	CH	EET MID

Client Sample ID: BH-40 (4)
Date Collected: 12/06/24 10:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 13:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 16:50	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/09/24 23:45	CH	EET MID

Client Sample ID: BH-41 (4)
Date Collected: 12/06/24 10:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 13:57	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-41 (4)
Date Collected: 12/06/24 10:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			97499	12/09/24 17:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 17:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/09/24 23:50	CH	EET MID

Client Sample ID: BH-42 (4)
Date Collected: 12/06/24 10:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 17:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 17:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/09/24 23:56	CH	EET MID

Client Sample ID: BH-46 (3)
Date Collected: 12/06/24 10:30
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 14:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 17:55	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 00:02	CH	EET MID

Client Sample ID: BH-47 (3)
Date Collected: 12/06/24 10:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 14:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 14:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 18:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 18:10	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-47 (3)
Date Collected: 12/06/24 10:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 00:20	CH	EET MID

Client Sample ID: BH-48 (3)
Date Collected: 12/06/24 10:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 15:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 18:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 18:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 00:26	CH	EET MID

Client Sample ID: BH-49 (2)
Date Collected: 12/06/24 10:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 18:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 18:43	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 00:32	CH	EET MID

Client Sample ID: BH-50 (2)
Date Collected: 12/06/24 10:50
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 18:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 18:58	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 00:38	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-51 (2)
Date Collected: 12/06/24 10:55
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 17:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 19:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97364	12/09/24 08:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97401	12/09/24 19:14	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 00:44	CH	EET MID

Client Sample ID: BH-30 (2)
Date Collected: 12/06/24 11:00
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 21:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 21:21	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 00:49	CH	EET MID

Client Sample ID: BH-31 (2)
Date Collected: 12/06/24 11:05
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 22:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 01:07	CH	EET MID

Client Sample ID: BH-32 (2)
Date Collected: 12/06/24 11:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 18:35	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-32 (2)
Date Collected: 12/06/24 11:10
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			97499	12/09/24 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 22:25	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 01:13	CH	EET MID

Client Sample ID: BH-34 (2)
Date Collected: 12/06/24 11:15
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 22:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 01:31	CH	EET MID

Client Sample ID: BH-37 (3)
Date Collected: 12/06/24 11:20
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 22:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 22:56	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 01:37	CH	EET MID

Client Sample ID: BH-27 (2)
Date Collected: 12/06/24 11:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 19:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 23:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 23:13	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-27 (2)
Date Collected: 12/06/24 11:25
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 01:43	CH	EET MID

Client Sample ID: BH-28 (2)
Date Collected: 12/06/24 11:30
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97371	12/09/24 09:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97354	12/09/24 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 23:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 23:28	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 01:48	CH	EET MID

Client Sample ID: BH-29 (2)
Date Collected: 12/06/24 11:35
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/09/24 23:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 23:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 01:54	CH	EET MID

Client Sample ID: BH-57 (2)
Date Collected: 12/06/24 11:40
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/10/24 00:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 00:00	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 02:00	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Client Sample ID: BH-58 (2)
Date Collected: 12/06/24 11:45
Date Received: 12/06/24 13:49

Lab Sample ID: 890-7443-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97498	12/09/24 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			97499	12/10/24 00:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 00:16	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97423	12/09/24 13:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97441	12/10/24 02:06	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7443-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7443-1	BH-6 (4.0)'	Solid	12/06/24 08:00	12/06/24 13:49
890-7443-2	BH-7 (3.0)'	Solid	12/06/24 08:05	12/06/24 13:49
890-7443-3	BH-8 (3.0)	Solid	12/06/24 08:10	12/06/24 13:49
890-7443-4	BH-9 (3)	Solid	12/06/24 08:15	12/06/24 13:49
890-7443-5	BH-10 (3)	Solid	12/06/24 08:20	12/06/24 13:49
890-7443-6	BH-11 (3)	Solid	12/06/24 08:25	12/06/24 13:49
890-7443-8	BH-17 (3)	Solid	12/06/24 08:35	12/06/24 13:49
890-7443-9	BH-18 (3)	Solid	12/06/24 08:40	12/06/24 13:49
890-7443-10	BH-19 (3)	Solid	12/06/24 08:45	12/06/24 13:49
890-7443-11	BH-20 (3)	Solid	12/06/24 09:00	12/06/24 13:49
890-7443-12	BH-21 (3.0)	Solid	12/06/24 09:05	12/06/24 13:49
890-7443-13	BH-22 (3.0)	Solid	12/06/24 09:10	12/06/24 13:49
890-7443-14	BH-23 (3.0)	Solid	12/06/24 09:15	12/06/24 13:49
890-7443-15	BH-24 (3.0)	Solid	12/06/24 09:20	12/06/24 13:49
890-7443-16	BH-25 (3.0)	Solid	12/06/24 09:25	12/06/24 13:49
890-7443-19	SW-14	Solid	12/06/24 09:40	12/06/24 13:49
890-7443-20	SW-7	Solid	12/06/24 09:45	12/06/24 13:49
890-7443-21	SW-9	Solid	12/06/24 09:50	12/06/24 13:49
890-7443-22	SW-10	Solid	12/06/24 09:55	12/06/24 13:49
890-7443-23	BH-26 (2)	Solid	12/06/24 10:00	12/06/24 13:49
890-7443-24	BH-35 (2)	Solid	12/06/24 10:05	12/06/24 13:49
890-7443-25	BH-39 (4)	Solid	12/06/24 10:10	12/06/24 13:49
890-7443-26	BH-40 (4)	Solid	12/06/24 10:15	12/06/24 13:49
890-7443-27	BH-41 (4)	Solid	12/06/24 10:20	12/06/24 13:49
890-7443-28	BH-42 (4)	Solid	12/06/24 10:25	12/06/24 13:49
890-7443-29	BH-46 (3)	Solid	12/06/24 10:30	12/06/24 13:49
890-7443-30	BH-47 (3)	Solid	12/06/24 10:35	12/06/24 13:49
890-7443-31	BH-48 (3)	Solid	12/06/24 10:40	12/06/24 13:49
890-7443-32	BH-49 (2)	Solid	12/06/24 10:45	12/06/24 13:49
890-7443-33	BH-50 (2)	Solid	12/06/24 10:50	12/06/24 13:49
890-7443-34	BH-51 (2)	Solid	12/06/24 10:55	12/06/24 13:49
890-7443-35	BH-30 (2)	Solid	12/06/24 11:00	12/06/24 13:49
890-7443-36	BH-31 (2)	Solid	12/06/24 11:05	12/06/24 13:49
890-7443-37	BH-32 (2)	Solid	12/06/24 11:10	12/06/24 13:49
890-7443-38	BH-34 (2)	Solid	12/06/24 11:15	12/06/24 13:49
890-7443-39	BH-37 (3)	Solid	12/06/24 11:20	12/06/24 13:49
890-7443-40	BH-27 (2)	Solid	12/06/24 11:25	12/06/24 13:49
890-7443-41	BH-28 (2)	Solid	12/06/24 11:30	12/06/24 13:49
890-7443-42	BH-29 (2)	Solid	12/06/24 11:35	12/06/24 13:49
890-7443-43	BH-57 (2)	Solid	12/06/24 11:40	12/06/24 13:49
890-7443-44	BH-58 (2)	Solid	12/06/24 11:45	12/06/24 13:49

Page 304 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

12/11/2024

AN

(Circle or

890-7443 Chain of Custody

Client Name:	Solaris	Site Manager:	Brittany Long
Project Name:	Iceman SWD		(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-03085
Invoice to:	Solairs ATTN: Rob Kirk		
Receiving Laboratory:	Eurofins Laboratories	Sampler Signature:	Gary Allen
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO + ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance
	BH-6 (4.0')	12/6/2024	8:00		X			X				X		X												X		
	BH-7 (3.0')	12/6/2024	8:05		X			X				X		X												X		
	BH-8 (3.0')	12/6/2024	8:10		X			X				X		X												X		
	BH-9 (3')	12/6/2024	8:15		X			X				X		X												X		
	BH-10 (3')	12/6/2024	8:20		X			X				X		X												X		
	BH-11 (3')	12/6/2024	8:25		X			X				X		X												X		
	BH-12 (3')	12/6/2024	8:30		X			X				X		X												X		
	BH-17 (3.0')	12/6/2024	8:35		X			X				X		X												X		
	BH-18 (3')	12/6/2024	8:40		X			X				X		X												X		
	BH-19 (3')	12/6/2024	8:45		X			X				X		X												X		

Relinquished by:	Date: 12-6-24	Time: 12:12	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/6 Time: 12:14

LAB USE ONLY

Sample Temperature

-4.0

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 305 of 1592

Analysis Request of Chain of Custody Record

12/11/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				
	BH-20 (3')	12/6/2024	9:00		X				X					X		X												X							
	BH-21 (3.0')	12/6/2024	9:05		X				X					X		X												X							
	BH-22 (3.0')	12/6/2024	9:10		X				X					X		X												X							
	BH-23 (3.0')	12/6/2024	9:15		X				X					X		X												X							
	BH-24 (3.0')	12/6/2024	9:20		X				X					X		X												X							
	BH-25 (3.0')	12/6/2024	9:25		X				X					X		X												X							
	SW-4	12/6/2024	9:30		X				X					X		X												X							
	SW-5	12/6/2024	9:35		X				X					X		X												X							
	SW-14	12/6/2024	9:40		X				X					X		X												X							
	SW-7	12/6/2024	9:45		X				X					X		X												X							

Relinquished by:	Date: 12-6-24	Time: 12:12	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/6 Time: 12:14

LAB USE ONLY

Sample Temperature

-1.0 C

REMARKS: Standard TAT

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 82 of 87

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 306 of 1592

Analysis Request of Chain of Custody Record

12/11/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris

Site Manager: Brittany Long

Project Name: Iceman SWD

(432) 741-5813
Brittany.long@tetratech.com

Project Location: (county, state) Eddy County, NM

Project #: 212C-MD-03085

Invoice to: Solairs ATTN: Rob Kirk

Receiving Laboratory: Eurofins Laboratories

Sampler Signature: Gary Allen

Comments:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				
	SW-9	12/6/2024	9:50		X			X			X		X												X						
	SW-10	12/6/2024	9:55		X			X			X		X												X						
	BH-26 (2')	12/6/2024	10:00		X			X			X		X												X						
	BH-35 (2')	12/6/2024	10:05		X			X			X		X												X						
	BH-39 (4')	12/6/2024	10:10		X			X			X		X												X						
	BH-40 (4')	12/6/2024	10:15		X			X			X		X												X						
	BH-41 (4')	12/6/2024	10:20		X			X			X		X												X						
	BH-42 (4')	12/6/2024	10:25		X			X			X		X												X						
	BH-46 (3')	12/6/2024	10:30		X			X			X		X												X						
	BH-47 (3')	12/6/2024	10:35		X			X			X		X												X						

Relinquished by: Date: 12-6-24 Time: 12:12
Received by: Date: 12/6 Time: 12:14

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY
Sample Temperature

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr
Rush Charges Authorized
Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 83 of 87

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 307 of 1592

Analysis Request of Chain of Custody Record

12/11/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris

Site Manager: Brittany Long

Project Name: Iceman SWD

(432) 741-5813
Brittany.long@tetratech.com

Project Location: (county, state) Eddy County, NM

Project #: 212C-MD-03085

Invoice to: Solairs ATTN: Rob Kirk

Receiving Laboratory: Eurofins Laboratories

Sampler Signature: Gary Allen

Comments:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	BTEX 8260B
	BH-48 (3')	12/6/2024	10:40		X			X			X		X												X				
	BH-49 (2')	12/6/2024	10:45		X			X			X		X												X				
	BH-50 (2')	12/6/2024	10:50		X			X			X		X												X				
	BH-51 (2')	12/6/2024	10:55		X			X			X		X												X				
	BH-30 (2.0')	12/6/2024	11:00		X			X			X		X												X				
	BH-31 (2.0')	12/6/2024	11:05		X			X			X		X												X				
	BH-32 (2.0')	12/6/2024	11:10		X			X			X		X												X				
	BH-34 (2.0')	12/6/2024	11:15		X			X			X		X												X				
	BH-37 (3.0')	12/6/2024	11:20		X			X			X		X												X				
	BH-27 (2.0')	12/6/2024	11:25		X			X			X		X												X				

Relinquished by: Date: 12-6-24 Time: 12:12
Received by: Date: 12/6 Time: 12:14

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY

Sample Temperature: -4.0

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 84 of 87

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 308 of 1592

Analysis Request of Chain of Custody Record

12/11/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Culberson County TX	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO + ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance
	BH-28 (2.0')	12/6/2024	11:30		X				X				X			X												X			
	BH-29 (2.0')	12/6/2024	11:35		X				X				X			X												X			
	BH-57 (2.0')	12/6/2024	11:40		X				X				X			X												X			
	BH-58 (2.0')	12/6/2024	11:45		X				X				X			X												X			

Page 85 of 87

Relinquished by:	Date: 12-6-24	Time: 12:R	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/6 Time:

LAB USE ONLY

Sample Temperature

-4.0

REMARKS: Standard TAT

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) ~~HAND DELIVERED~~ ~~FEDEX~~ UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7443-1
SDG Number: Eddy County NM

Login Number: 7443
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7443-1
SDG Number: Eddy County NM

Login Number: 7443
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 12/09/24 08:13 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	False	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/11/2024 11:49:40 AM

JOB DESCRIPTION

ICEMAN SWD

JOB NUMBER

890-7444-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

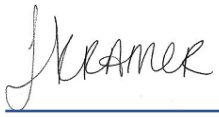
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/11/2024 11:49:40 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7444-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 16
QC Sample Results 18
QC Association Summary 25
Lab Chronicle 29
Certification Summary 33
Method Summary 34
Sample Summary 35
Chain of Custody 36
Receipt Checklists 38

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7444-1
Project/Site: ICEMAN SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7444-1

Job ID: 890-7444-1 Eurofins Carlsbad

Job Narrative
890-7444-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/6/2024 12:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.8°C.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-5 (4.0 (890-7444-8) and BH-13 (3.0) (890-7444-9). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-14 (3.0) (890-7444-10). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-97365 and analytical batch 880-97399 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-97365/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: SW-1

Lab Sample ID: 890-7444-1
Date Collected: 12/02/24 08:00
Matrix: Solid
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:15	1
Ethylbenzene	**0.0115**		0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:15	1
Xylenes, Total	**0.0125**		0.00403		mg/Kg		12/09/24 09:51	12/09/24 18:15	1
m-Xylene & p-Xylene	**0.00724**		0.00403		mg/Kg		12/09/24 09:51	12/09/24 18:15	1
o-Xylene	**0.00527**		0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/09/24 09:51*	*12/09/24 18:15*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/09/24 09:51*	*12/09/24 18:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0240**		0.00403		mg/Kg			12/09/24 18:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/10/24 00:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		12/09/24 09:03	12/10/24 00:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/10/24 00:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/10/24 00:47	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/10/24 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/09/24 09:03*	*12/10/24 00:47*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/09/24 09:03*	*12/10/24 00:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.9**		9.94		mg/Kg			12/09/24 19:56	1

Client Sample ID: SW-2

Lab Sample ID: 890-7444-2
Date Collected: 12/02/24 08:05
Matrix: Solid
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:51	12/09/24 18:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:51	12/09/24 18:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:51	12/09/24 18:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/09/24 09:51	12/09/24 18:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/09/24 09:51	12/09/24 18:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/09/24 09:51	12/09/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/09/24 09:51*	*12/09/24 18:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/09/24 09:51*	*12/09/24 18:35*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: SW-2

Lab Sample ID: 890-7444-2
Date Collected: 12/02/24 08:05
Matrix: Solid
Date Received: 12/06/24 12:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/24 18:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/10/24 01:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		12/09/24 09:03	12/10/24 01:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 01:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 01:03	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:03*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		9.92		mg/Kg			12/09/24 20:01	1

Client Sample ID: SW-3

Lab Sample ID: 890-7444-3
Date Collected: 12/02/24 08:10
Matrix: Solid
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/09/24 09:51	12/09/24 18:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/09/24 09:51	12/09/24 18:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:51	12/09/24 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/09/24 09:51*	*12/09/24 18:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/09/24 09:51*	*12/09/24 18:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/09/24 18:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/10/24 01:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		12/09/24 09:03	12/10/24 01:19	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: SW-3

Lab Sample ID: 890-7444-3
Matrix: Solid
Date Collected: 12/02/24 08:10
Date Received: 12/06/24 12:14

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/10/24 01:19	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/10/24 01:19	1
Total TPH	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/10/24 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:19*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**513**		10.1		mg/Kg			12/09/24 20:17	1

Client Sample ID: BH-1 (4.0)

Lab Sample ID: 890-7444-4
Matrix: Solid
Date Collected: 12/02/24 08:15
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 19:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 19:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 19:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/24 09:51	12/09/24 19:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:51	12/09/24 19:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/09/24 09:51*	*12/09/24 19:16*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/09/24 09:51*	*12/09/24 19:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/24 19:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/10/24 01:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/09/24 09:03	12/10/24 01:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 01:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 01:35	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:35*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:35*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-1 (4.0)

Lab Sample ID: 890-7444-4
Matrix: Solid
Date Collected: 12/02/24 08:15
Date Received: 12/06/24 12:14

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		9.96		mg/Kg			12/09/24 20:23	1

Client Sample ID: BH-2 (4.0)

Lab Sample ID: 890-7444-5
Matrix: Solid
Date Collected: 12/02/24 08:20
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:51	12/09/24 19:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:51	12/09/24 19:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:51	12/09/24 19:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/09/24 09:51	12/09/24 19:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/09/24 09:51	12/09/24 19:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/09/24 09:51	12/09/24 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/09/24 09:51*	*12/09/24 19:37*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/09/24 09:51*	*12/09/24 19:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/24 19:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/10/24 01:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		12/09/24 09:03	12/10/24 01:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/10/24 01:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/10/24 01:50	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/10/24 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:50*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/09/24 09:03*	*12/10/24 01:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		9.98		mg/Kg			12/09/24 20:28	1

Client Sample ID: BH-3 (4.0)

Lab Sample ID: 890-7444-6
Matrix: Solid
Date Collected: 12/02/24 08:25
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 19:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 19:57	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-3 (4.0)

Lab Sample ID: 890-7444-6
Matrix: Solid
Date Collected: 12/02/24 08:25
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 19:57	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:51	12/09/24 19:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:51	12/09/24 19:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:51	12/09/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/09/24 09:51*	*12/09/24 19:57*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/09/24 09:51*	*12/09/24 19:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/09/24 19:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/10/24 02:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/09/24 09:03	12/10/24 02:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 02:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 02:07	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:07*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**209**		10.0		mg/Kg			12/09/24 20:33	1

Client Sample ID: BH-4 (4.0)

Lab Sample ID: 890-7444-7
Matrix: Solid
Date Collected: 12/02/24 08:30
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 20:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 20:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 20:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:51	12/09/24 20:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:51	12/09/24 20:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/09/24 09:51*	*12/09/24 20:18*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/09/24 09:51*	*12/09/24 20:18*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-4 (4.0)

Lab Sample ID: 890-7444-7
Matrix: Solid
Date Collected: 12/02/24 08:30
Date Received: 12/06/24 12:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 20:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/10/24 02:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		12/09/24 09:03	12/10/24 02:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 02:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 02:22	1
Total TPH	<49.8	U	49.8		mg/Kg		12/09/24 09:03	12/10/24 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:22*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**952**		9.94		mg/Kg			12/09/24 20:38	1

Client Sample ID: BH-5 (4.0

Lab Sample ID: 890-7444-8
Matrix: Solid
Date Collected: 12/02/24 08:35
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/24 09:57	12/09/24 12:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/24 09:57	12/09/24 12:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/09/24 09:57*	*12/09/24 12:11*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/09/24 09:57*	*12/09/24 12:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/09/24 12:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/10/24 02:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		12/09/24 09:03	12/10/24 02:37	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-5 (4.0

Date Collected: 12/02/24 08:35
Date Received: 12/06/24 12:14

Lab Sample ID: 890-7444-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/10/24 02:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/10/24 02:37	1
Total TPH	<49.7	U	49.7		mg/Kg		12/09/24 09:03	12/10/24 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:37*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**		9.96		mg/Kg			12/09/24 20:44	1

Client Sample ID: BH-13 (3.0)

Date Collected: 12/02/24 08:40
Date Received: 12/06/24 12:14

Lab Sample ID: 890-7444-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:31	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/09/24 09:57	12/09/24 12:31	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/09/24 09:57	12/09/24 12:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/09/24 09:57*	*12/09/24 12:31*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/09/24 09:57*	*12/09/24 12:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/09/24 12:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**162**		50.0		mg/Kg			12/10/24 02:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		12/09/24 09:03	12/10/24 02:54	1
Diesel Range Organics (Over C10-C28)	**162**		50.0		mg/Kg		12/09/24 09:03	12/10/24 02:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/10/24 02:54	1
Total TPH	**162**		50.0		mg/Kg		12/09/24 09:03	12/10/24 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:54*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/09/24 09:03*	*12/10/24 02:54*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-13 (3.0)

Lab Sample ID: 890-7444-9
Matrix: Solid
Date Collected: 12/02/24 08:40
Date Received: 12/06/24 12:14

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		9.98		mg/Kg			12/09/24 20:59	1

Client Sample ID: BH-14 (3.0)

Lab Sample ID: 890-7444-10
Matrix: Solid
Date Collected: 12/02/24 08:45
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 12:51	1
Xylenes, Total	**0.0159**		0.00399		mg/Kg		12/09/24 09:57	12/09/24 12:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/24 09:57	12/09/24 12:51	1
o-Xylene	**0.0159**		0.00200		mg/Kg		12/09/24 09:57	12/09/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/09/24 09:57*	*12/09/24 12:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/09/24 09:57*	*12/09/24 12:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0159**		0.00399		mg/Kg			12/09/24 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**80.9**		49.9		mg/Kg			12/10/24 03:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/09/24 09:03	12/10/24 03:10	1
Diesel Range Organics (Over C10-C28)	**80.9**		49.9		mg/Kg		12/09/24 09:03	12/10/24 03:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:03	12/10/24 03:10	1
Total TPH	**80.9**		49.9		mg/Kg		12/09/24 09:03	12/10/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/09/24 09:03*	*12/10/24 03:10*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*12/09/24 09:03*	*12/10/24 03:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		10.1		mg/Kg			12/09/24 21:05	1

Client Sample ID: BH-15 (3.0)

Lab Sample ID: 890-7444-11
Matrix: Solid
Date Collected: 12/02/24 09:00
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:57	12/09/24 13:12	1
Ethylbenzene	**0.00261**		0.00202		mg/Kg		12/09/24 09:57	12/09/24 13:12	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-15 (3.0)

Lab Sample ID: 890-7444-11
Matrix: Solid
Date Collected: 12/02/24 09:00
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/24 09:57	12/09/24 13:12	1
Xylenes, Total	**0.00639**		0.00403		mg/Kg		12/09/24 09:57	12/09/24 13:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/09/24 09:57	12/09/24 13:12	1
o-Xylene	**0.00639**		0.00202		mg/Kg		12/09/24 09:57	12/09/24 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/09/24 09:57*	*12/09/24 13:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/09/24 09:57*	*12/09/24 13:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00900**		0.00403		mg/Kg			12/09/24 13:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/11/24 02:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/24 09:06	12/11/24 02:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 09:06	12/11/24 02:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 09:06	12/11/24 02:05	1
Total TPH	<49.9	U	49.9		mg/Kg		12/09/24 09:06	12/11/24 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*12/09/24 09:06*	*12/11/24 02:05*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/09/24 09:06*	*12/11/24 02:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.1**		9.94		mg/Kg			12/09/24 21:20	1

Client Sample ID: BH-16 (3.0)

Lab Sample ID: 890-7444-12
Matrix: Solid
Date Collected: 12/02/24 09:05
Date Received: 12/06/24 12:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 13:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 13:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 13:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/24 09:57	12/09/24 13:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/24 09:57	12/09/24 13:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/09/24 09:57*	*12/09/24 13:32*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/09/24 09:57*	*12/09/24 13:32*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-16 (3.0)

Lab Sample ID: 890-7444-12
Matrix: Solid
Date Collected: 12/02/24 09:05
Date Received: 12/06/24 12:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/24 13:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/11/24 02:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 02:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 02:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 02:52	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/09/24 09:06*	*12/11/24 02:52*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/09/24 09:06*	*12/11/24 02:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.7**		9.92		mg/Kg			12/09/24 21:26	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7443-A-42-B MS	Matrix Spike	111	102
890-7443-A-42-C MSD	Matrix Spike Duplicate	109	101
890-7444-1	SW-1	107	98
890-7444-2	SW-2	112	100
890-7444-3	SW-3	105	101
890-7444-4	BH-1 (4.0)	107	104
890-7444-5	BH-2 (4.0)	113	101
890-7444-6	BH-3 (4.0)	107	100
890-7444-7	BH-4 (4.0)	108	102
890-7444-8	BH-5 (4.0	113	108
890-7444-8 MS	BH-5 (4.0	110	104
890-7444-8 MSD	BH-5 (4.0	110	104
890-7444-9	BH-13 (3.0)	108	104
890-7444-10	BH-14 (3.0)	107	100
890-7444-11	BH-15 (3.0)	115	105
890-7444-12	BH-16 (3.0)	112	108
LCS 880-97372/1-A	Lab Control Sample	113	100
LCS 880-97375/1-A	Lab Control Sample	108	105
LCSD 880-97372/2-A	Lab Control Sample Dup	107	102
LCSD 880-97375/2-A	Lab Control Sample Dup	107	102
MB 880-97372/5-A	Method Blank	100	94
MB 880-97375/5-A	Method Blank	109	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7443-A-35-B MS	Matrix Spike	103	87
890-7443-A-35-C MSD	Matrix Spike Duplicate	102	85
890-7444-1	SW-1	97	75
890-7444-2	SW-2	91	74
890-7444-3	SW-3	93	71
890-7444-4	BH-1 (4.0)	97	75
890-7444-5	BH-2 (4.0)	92	72
890-7444-6	BH-3 (4.0)	95	74
890-7444-7	BH-4 (4.0)	101	78
890-7444-8	BH-5 (4.0	109	84
890-7444-9	BH-13 (3.0)	88	70
890-7444-10	BH-14 (3.0)	86	68 S1-
890-7444-11	BH-15 (3.0)	112	105
890-7444-11 MS	BH-15 (3.0)	102	102
890-7444-11 MSD	BH-15 (3.0)	103	101
890-7444-12	BH-16 (3.0)	104	95
LCS 880-97365/2-A	Lab Control Sample	129	114

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7444-1
Project/Site: ICEMAN SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCS 880-97366/2-A	Lab Control Sample	109	110								
LCSD 880-97365/3-A	Lab Control Sample Dup	136 S1+	121								
LCSD 880-97366/3-A	Lab Control Sample Dup	105	107								
MB 880-97365/1-A	Method Blank	97	77								
MB 880-97366/1-A	Method Blank	115	107								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97372/5-A
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/09/24 09:51*	*12/09/24 12:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/09/24 09:51*	*12/09/24 12:13*	*1*

Lab Sample ID: LCS 880-97372/1-A
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1130		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1174		mg/Kg		117	70 - 130		
Toluene			0.100	0.1096		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene			0.200	0.2331		mg/Kg		117	70 - 130		
o-Xylene			0.100	0.1304		mg/Kg		130	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-97372/2-A
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97372

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1133		mg/Kg		113	70 - 130	0	35
Ethylbenzene			0.100	0.1156		mg/Kg		116	70 - 130	2	35
Toluene			0.100	0.1093		mg/Kg		109	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2296		mg/Kg		115	70 - 130	2	35
o-Xylene			0.100	0.1292		mg/Kg		129	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7443-A-42-B MS
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.101	0.1085		mg/Kg		108	70 - 130		
Ethylbenzene	<0.00198	U	0.101	0.1088		mg/Kg		108	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7443-A-42-B MS
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00198	U	0.101	0.1041		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2177		mg/Kg		108	70 - 130
o-Xylene	<0.00198	U	0.101	0.1189		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7443-A-42-C MSD
Matrix: Solid
Analysis Batch: 97353

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1006		mg/Kg		101	70 - 130	8	35
Ethylbenzene	<0.00198	U	0.0998	0.09845		mg/Kg		99	70 - 130	10	35
Toluene	<0.00198	U	0.0998	0.09543		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1963		mg/Kg		98	70 - 130	10	35
o-Xylene	<0.00198	U	0.0998	0.1065		mg/Kg		107	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-97375/5-A
Matrix: Solid
Analysis Batch: 97356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/09/24 09:57*	*12/09/24 11:49*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/09/24 09:57*	*12/09/24 11:49*	*1*

Lab Sample ID: LCS 880-97375/1-A
Matrix: Solid
Analysis Batch: 97356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1237		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1169		mg/Kg		117	70 - 130
Toluene	0.100	0.1193		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2386		mg/Kg		119	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-97375/1-A
Matrix: Solid
Analysis Batch: 97356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97375

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1202		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-97375/2-A
Matrix: Solid
Analysis Batch: 97356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97375

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1211		mg/Kg		121	70 - 130	2	35
Ethylbenzene			0.100	0.1154		mg/Kg		115	70 - 130	1	35
Toluene			0.100	0.1173		mg/Kg		117	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2351		mg/Kg		118	70 - 130	1	35
o-Xylene			0.100	0.1193		mg/Kg		119	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7444-8 MS
Matrix: Solid
Analysis Batch: 97356

Client Sample ID: BH-5 (4.0
Prep Type: Total/NA
Prep Batch: 97375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.101	0.1108		mg/Kg		110	70 - 130		
Ethylbenzene	<0.00198	U	0.101	0.1045		mg/Kg		103	70 - 130		
Toluene	<0.00198	U	0.101	0.1071		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2112		mg/Kg		105	70 - 130		
o-Xylene	<0.00198	U	0.101	0.1068		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-7444-8 MSD
Matrix: Solid
Analysis Batch: 97356

Client Sample ID: BH-5 (4.0
Prep Type: Total/NA
Prep Batch: 97375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1033		mg/Kg		104	70 - 130	7	35
Ethylbenzene	<0.00198	U	0.0998	0.09409		mg/Kg		93	70 - 130	10	35
Toluene	<0.00198	U	0.0998	0.09801		mg/Kg		98	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1902		mg/Kg		95	70 - 130	10	35
o-Xylene	<0.00198	U	0.0998	0.09589		mg/Kg		96	70 - 130	11	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7444-8 MSD
Matrix: Solid
Analysis Batch: 97356

Client Sample ID: BH-5 (4.0
Prep Type: Total/NA
Prep Batch: 97375

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-97365/1-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:03	12/09/24 20:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	12/09/24 09:03	12/09/24 20:33	1
o-Terphenyl	77		70 - 130	12/09/24 09:03	12/09/24 20:33	1

Lab Sample ID: LCS 880-97365/2-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97365

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1309	*+	mg/Kg		131	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-97365/3-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97365

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1345	*+	mg/Kg		135	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1155		mg/Kg		116	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	121		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7443-A-35-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97399 — **Prep Batch: 97365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	999	915.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	999	737.0		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 890-7443-A-35-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97399 — **Prep Batch: 97365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	999	921.6		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.7	U	999	698.9		mg/Kg		70	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: MB 880-97366/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97475 — **Prep Batch: 97366**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 01:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 01:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 01:18	1
Total TPH	<50.0	U	50.0		mg/Kg		12/09/24 09:06	12/11/24 01:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*12/09/24 09:06*	*12/11/24 01:18*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/09/24 09:06*	*12/11/24 01:18*	*1*

Lab Sample ID: LCS 880-97366/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 97475 — **Prep Batch: 97366**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	903.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-97366/2-A
Matrix: Solid
Analysis Batch: 97475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97366

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-97366/3-A
Matrix: Solid
Analysis Batch: 97475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97366

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	897.6		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	951.5		mg/Kg		95	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 890-7444-11 MS
Matrix: Solid
Analysis Batch: 97475

Client Sample ID: BH-15 (3.0)
Prep Type: Total/NA
Prep Batch: 97366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	958.9		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	885.8		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-7444-11 MSD
Matrix: Solid
Analysis Batch: 97475

Client Sample ID: BH-15 (3.0)
Prep Type: Total/NA
Prep Batch: 97366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	974.0		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	889.4		mg/Kg		89	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	101		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97425/1-A
Matrix: Solid
Analysis Batch: 97451

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/09/24 19:14	1

Lab Sample ID: LCS 880-97425/2-A
Matrix: Solid
Analysis Batch: 97451

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.8		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-97425/3-A
Matrix: Solid
Analysis Batch: 97451

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.9		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-7444-8 MS
Matrix: Solid
Analysis Batch: 97451

Client Sample ID: BH-5 (4.0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	149		249	389.8		mg/Kg		97	90 - 110		

Lab Sample ID: 890-7444-8 MSD
Matrix: Solid
Analysis Batch: 97451

Client Sample ID: BH-5 (4.0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	149		249	389.8		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

GC VOA

Analysis Batch: 97353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Total/NA	Solid	8021B	97372
890-7444-2	SW-2	Total/NA	Solid	8021B	97372
890-7444-3	SW-3	Total/NA	Solid	8021B	97372
890-7444-4	BH-1 (4.0)	Total/NA	Solid	8021B	97372
890-7444-5	BH-2 (4.0)	Total/NA	Solid	8021B	97372
890-7444-6	BH-3 (4.0)	Total/NA	Solid	8021B	97372
890-7444-7	BH-4 (4.0)	Total/NA	Solid	8021B	97372
MB 880-97372/5-A	Method Blank	Total/NA	Solid	8021B	97372
LCS 880-97372/1-A	Lab Control Sample	Total/NA	Solid	8021B	97372
LCSD 880-97372/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97372
890-7443-A-42-B MS	Matrix Spike	Total/NA	Solid	8021B	97372
890-7443-A-42-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97372

Analysis Batch: 97356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-8	BH-5 (4.0	Total/NA	Solid	8021B	97375
890-7444-9	BH-13 (3.0)	Total/NA	Solid	8021B	97375
890-7444-10	BH-14 (3.0)	Total/NA	Solid	8021B	97375
890-7444-11	BH-15 (3.0)	Total/NA	Solid	8021B	97375
890-7444-12	BH-16 (3.0)	Total/NA	Solid	8021B	97375
MB 880-97375/5-A	Method Blank	Total/NA	Solid	8021B	97375
LCS 880-97375/1-A	Lab Control Sample	Total/NA	Solid	8021B	97375
LCSD 880-97375/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97375
890-7444-8 MS	BH-5 (4.0	Total/NA	Solid	8021B	97375
890-7444-8 MSD	BH-5 (4.0	Total/NA	Solid	8021B	97375

Prep Batch: 97372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Total/NA	Solid	5035	
890-7444-2	SW-2	Total/NA	Solid	5035	
890-7444-3	SW-3	Total/NA	Solid	5035	
890-7444-4	BH-1 (4.0)	Total/NA	Solid	5035	
890-7444-5	BH-2 (4.0)	Total/NA	Solid	5035	
890-7444-6	BH-3 (4.0)	Total/NA	Solid	5035	
890-7444-7	BH-4 (4.0)	Total/NA	Solid	5035	
MB 880-97372/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97372/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97372/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7443-A-42-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7443-A-42-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 97375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-8	BH-5 (4.0	Total/NA	Solid	5035	
890-7444-9	BH-13 (3.0)	Total/NA	Solid	5035	
890-7444-10	BH-14 (3.0)	Total/NA	Solid	5035	
890-7444-11	BH-15 (3.0)	Total/NA	Solid	5035	
890-7444-12	BH-16 (3.0)	Total/NA	Solid	5035	
MB 880-97375/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97375/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97375/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

GC VOA (Continued)

Prep Batch: 97375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-8 MS	BH-5 (4.0	Total/NA	Solid	5035	
890-7444-8 MSD	BH-5 (4.0	Total/NA	Solid	5035	

Analysis Batch: 97460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Total/NA	Solid	Total BTEX	
890-7444-2	SW-2	Total/NA	Solid	Total BTEX	
890-7444-3	SW-3	Total/NA	Solid	Total BTEX	
890-7444-4	BH-1 (4.0)	Total/NA	Solid	Total BTEX	
890-7444-5	BH-2 (4.0)	Total/NA	Solid	Total BTEX	
890-7444-6	BH-3 (4.0)	Total/NA	Solid	Total BTEX	
890-7444-7	BH-4 (4.0)	Total/NA	Solid	Total BTEX	
890-7444-8	BH-5 (4.0	Total/NA	Solid	Total BTEX	
890-7444-9	BH-13 (3.0)	Total/NA	Solid	Total BTEX	
890-7444-10	BH-14 (3.0)	Total/NA	Solid	Total BTEX	
890-7444-11	BH-15 (3.0)	Total/NA	Solid	Total BTEX	
890-7444-12	BH-16 (3.0)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Total/NA	Solid	8015NM Prep	
890-7444-2	SW-2	Total/NA	Solid	8015NM Prep	
890-7444-3	SW-3	Total/NA	Solid	8015NM Prep	
890-7444-4	BH-1 (4.0)	Total/NA	Solid	8015NM Prep	
890-7444-5	BH-2 (4.0)	Total/NA	Solid	8015NM Prep	
890-7444-6	BH-3 (4.0)	Total/NA	Solid	8015NM Prep	
890-7444-7	BH-4 (4.0)	Total/NA	Solid	8015NM Prep	
890-7444-8	BH-5 (4.0	Total/NA	Solid	8015NM Prep	
890-7444-9	BH-13 (3.0)	Total/NA	Solid	8015NM Prep	
890-7444-10	BH-14 (3.0)	Total/NA	Solid	8015NM Prep	
MB 880-97365/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97365/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7443-A-35-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7443-A-35-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 97366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-11	BH-15 (3.0)	Total/NA	Solid	8015NM Prep	
890-7444-12	BH-16 (3.0)	Total/NA	Solid	8015NM Prep	
MB 880-97366/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97366/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97366/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7444-11 MS	BH-15 (3.0)	Total/NA	Solid	8015NM Prep	
890-7444-11 MSD	BH-15 (3.0)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Total/NA	Solid	8015B NM	97365

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

GC Semi VOA (Continued)

Analysis Batch: 97399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-2	SW-2	Total/NA	Solid	8015B NM	97365
890-7444-3	SW-3	Total/NA	Solid	8015B NM	97365
890-7444-4	BH-1 (4.0)	Total/NA	Solid	8015B NM	97365
890-7444-5	BH-2 (4.0)	Total/NA	Solid	8015B NM	97365
890-7444-6	BH-3 (4.0)	Total/NA	Solid	8015B NM	97365
890-7444-7	BH-4 (4.0)	Total/NA	Solid	8015B NM	97365
890-7444-8	BH-5 (4.0	Total/NA	Solid	8015B NM	97365
890-7444-9	BH-13 (3.0)	Total/NA	Solid	8015B NM	97365
890-7444-10	BH-14 (3.0)	Total/NA	Solid	8015B NM	97365
MB 880-97365/1-A	Method Blank	Total/NA	Solid	8015B NM	97365
LCS 880-97365/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97365
LCSD 880-97365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97365
890-7443-A-35-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97365
890-7443-A-35-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97365

Analysis Batch: 97475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-11	BH-15 (3.0)	Total/NA	Solid	8015B NM	97366
890-7444-12	BH-16 (3.0)	Total/NA	Solid	8015B NM	97366
MB 880-97366/1-A	Method Blank	Total/NA	Solid	8015B NM	97366
LCS 880-97366/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97366
LCSD 880-97366/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97366
890-7444-11 MS	BH-15 (3.0)	Total/NA	Solid	8015B NM	97366
890-7444-11 MSD	BH-15 (3.0)	Total/NA	Solid	8015B NM	97366

Analysis Batch: 97501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Total/NA	Solid	8015 NM	
890-7444-2	SW-2	Total/NA	Solid	8015 NM	
890-7444-3	SW-3	Total/NA	Solid	8015 NM	
890-7444-4	BH-1 (4.0)	Total/NA	Solid	8015 NM	
890-7444-5	BH-2 (4.0)	Total/NA	Solid	8015 NM	
890-7444-6	BH-3 (4.0)	Total/NA	Solid	8015 NM	
890-7444-7	BH-4 (4.0)	Total/NA	Solid	8015 NM	
890-7444-8	BH-5 (4.0	Total/NA	Solid	8015 NM	
890-7444-9	BH-13 (3.0)	Total/NA	Solid	8015 NM	
890-7444-10	BH-14 (3.0)	Total/NA	Solid	8015 NM	
890-7444-11	BH-15 (3.0)	Total/NA	Solid	8015 NM	
890-7444-12	BH-16 (3.0)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Soluble	Solid	DI Leach	
890-7444-2	SW-2	Soluble	Solid	DI Leach	
890-7444-3	SW-3	Soluble	Solid	DI Leach	
890-7444-4	BH-1 (4.0)	Soluble	Solid	DI Leach	
890-7444-5	BH-2 (4.0)	Soluble	Solid	DI Leach	
890-7444-6	BH-3 (4.0)	Soluble	Solid	DI Leach	
890-7444-7	BH-4 (4.0)	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

HPLC/IC (Continued)

Leach Batch: 97425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-8	BH-5 (4.0	Soluble	Solid	DI Leach	
890-7444-9	BH-13 (3.0)	Soluble	Solid	DI Leach	
890-7444-10	BH-14 (3.0)	Soluble	Solid	DI Leach	
890-7444-11	BH-15 (3.0)	Soluble	Solid	DI Leach	
890-7444-12	BH-16 (3.0)	Soluble	Solid	DI Leach	
MB 880-97425/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97425/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97425/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7444-8 MS	BH-5 (4.0	Soluble	Solid	DI Leach	
890-7444-8 MSD	BH-5 (4.0	Soluble	Solid	DI Leach	

Analysis Batch: 97451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7444-1	SW-1	Soluble	Solid	300.0	97425
890-7444-2	SW-2	Soluble	Solid	300.0	97425
890-7444-3	SW-3	Soluble	Solid	300.0	97425
890-7444-4	BH-1 (4.0)	Soluble	Solid	300.0	97425
890-7444-5	BH-2 (4.0)	Soluble	Solid	300.0	97425
890-7444-6	BH-3 (4.0)	Soluble	Solid	300.0	97425
890-7444-7	BH-4 (4.0)	Soluble	Solid	300.0	97425
890-7444-8	BH-5 (4.0	Soluble	Solid	300.0	97425
890-7444-9	BH-13 (3.0)	Soluble	Solid	300.0	97425
890-7444-10	BH-14 (3.0)	Soluble	Solid	300.0	97425
890-7444-11	BH-15 (3.0)	Soluble	Solid	300.0	97425
890-7444-12	BH-16 (3.0)	Soluble	Solid	300.0	97425
MB 880-97425/1-A	Method Blank	Soluble	Solid	300.0	97425
LCS 880-97425/2-A	Lab Control Sample	Soluble	Solid	300.0	97425
LCSD 880-97425/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97425
890-7444-8 MS	BH-5 (4.0	Soluble	Solid	300.0	97425
890-7444-8 MSD	BH-5 (4.0	Soluble	Solid	300.0	97425

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: SW-1

Lab Sample ID: 890-7444-1
Matrix: Solid
Date Collected: 12/02/24 08:00
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 18:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 00:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 00:47	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 19:56	CH	EET MID

Client Sample ID: SW-2

Lab Sample ID: 890-7444-2
Matrix: Solid
Date Collected: 12/02/24 08:05
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 18:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 01:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 01:03	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:01	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-7444-3
Matrix: Solid
Date Collected: 12/02/24 08:10
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 18:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 01:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 01:19	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:17	CH	EET MID

Client Sample ID: BH-1 (4.0)

Lab Sample ID: 890-7444-4
Matrix: Solid
Date Collected: 12/02/24 08:15
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 19:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 19:16	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-1 (4.0)

Lab Sample ID: 890-7444-4

Date Collected: 12/02/24 08:15
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			97501	12/10/24 01:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 01:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:23	CH	EET MID

Client Sample ID: BH-2 (4.0)

Lab Sample ID: 890-7444-5

Date Collected: 12/02/24 08:20
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 19:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 01:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 01:50	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:28	CH	EET MID

Client Sample ID: BH-3 (4.0)

Lab Sample ID: 890-7444-6

Date Collected: 12/02/24 08:25
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 19:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 19:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 02:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 02:07	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:33	CH	EET MID

Client Sample ID: BH-4 (4.0)

Lab Sample ID: 890-7444-7

Date Collected: 12/02/24 08:30
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97372	12/09/24 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97353	12/09/24 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 20:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 02:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 02:22	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-4 (4.0)

Lab Sample ID: 890-7444-7

Date Collected: 12/02/24 08:30
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:38	CH	EET MID

Client Sample ID: BH-5 (4.0

Lab Sample ID: 890-7444-8

Date Collected: 12/02/24 08:35
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	97375	12/09/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97356	12/09/24 12:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 02:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 02:37	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:44	CH	EET MID

Client Sample ID: BH-13 (3.0)

Lab Sample ID: 890-7444-9

Date Collected: 12/02/24 08:40
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97375	12/09/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97356	12/09/24 12:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 02:54	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 20:59	CH	EET MID

Client Sample ID: BH-14 (3.0)

Lab Sample ID: 890-7444-10

Date Collected: 12/02/24 08:45
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97375	12/09/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97356	12/09/24 12:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/10/24 03:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97365	12/09/24 09:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/10/24 03:10	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 21:05	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Client Sample ID: BH-15 (3.0)

Lab Sample ID: 890-7444-11

Date Collected: 12/02/24 09:00
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97375	12/09/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97356	12/09/24 13:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 13:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/11/24 02:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97366	12/09/24 09:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97475	12/11/24 02:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 21:20	CH	EET MID

Client Sample ID: BH-16 (3.0)

Lab Sample ID: 890-7444-12

Date Collected: 12/02/24 09:05
Matrix: Solid
Date Received: 12/06/24 12:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97375	12/09/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97356	12/09/24 13:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			97460	12/09/24 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			97501	12/11/24 02:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97366	12/09/24 09:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97475	12/11/24 02:52	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97425	12/09/24 13:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97451	12/09/24 21:26	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 890-7444-1
Project/Site: ICEMAN SWD

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7444-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7444-1	SW-1	Solid	12/02/24 08:00	12/06/24 12:14
890-7444-2	SW-2	Solid	12/02/24 08:05	12/06/24 12:14
890-7444-3	SW-3	Solid	12/02/24 08:10	12/06/24 12:14
890-7444-4	BH-1 (4.0)	Solid	12/02/24 08:15	12/06/24 12:14
890-7444-5	BH-2 (4.0)	Solid	12/02/24 08:20	12/06/24 12:14
890-7444-6	BH-3 (4.0)	Solid	12/02/24 08:25	12/06/24 12:14
890-7444-7	BH-4 (4.0)	Solid	12/02/24 08:30	12/06/24 12:14
890-7444-8	BH-5 (4.0	Solid	12/02/24 08:35	12/06/24 12:14
890-7444-9	BH-13 (3.0)	Solid	12/02/24 08:40	12/06/24 12:14
890-7444-10	BH-14 (3.0)	Solid	12/02/24 08:45	12/06/24 12:14
890-7444-11	BH-15 (3.0)	Solid	12/02/24 09:00	12/06/24 12:14
890-7444-12	BH-16 (3.0)	Solid	12/02/24 09:05	12/06/24 12:14

Page 346 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7444 Chain of Custody

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO)	BTEX 8260B	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	SW-1	12/2/2024	0800		X			X			X		X													X				
	SW-2	12/2/2024	0805		X			X			X		X													X				
	SW-3	12/2/2024	0810		X			X			X		X													X				
	BH-1 (4.0')	12/2/2024	0815		X			X			X		X													X				
	BH-2 (4.0')	12/2/2024	0820		X			X			X		X													X				
	BH-3 (4.0')	12/2/2024	0825		X			X			X		X													X				
	BH-4 (4.0')	12/2/2024	0830		X			X			X		X													X				
	BH-5 (4.0')	12/2/2024	0835		X			X			X		X													X				
	BH-13 (3.0')	12/2/2024	0840		X			X			X		X													X				
	BH-14 (3.0')	12/2/2024	0845		X			X			X		X													X				

Relinquished by:	Date: 12-6-24	Time: 12:12	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/6 Time: 12:14

LAB USE ONLY

Sample Temperature: -4.0

REMARKS: Standard TAT

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 36 of 39

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 347 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	
	BH-15 (3.0')	12/2/2024	0900		X			X			X		X												X				
	BH-16 (3.0')	12/2/2024	0905		X			X			X		X												X				

Hold

Page 37 of 39

Relinquished by:	Date: 12-6-24	Time: 12:12	Received by: Date: 12:14 12/6 Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature: -4.0

REMARKS: Standard TAT

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7444-1

Login Number: 7444

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7444-1

Login Number: 7444
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 12/09/24 08:13 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/18/2024 4:20:37 PM

JOB DESCRIPTION

Iceman SWD
212C - MD - 0096

JOB NUMBER

890-7468-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

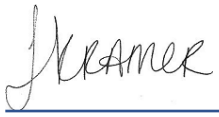
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/18/2024 4:20:37 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7468-1
SDG: 212C - MD - 0096

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 33
QC Sample Results 35
QC Association Summary 44
Lab Chronicle 52
Certification Summary 62
Method Summary 63
Sample Summary 64
Chain of Custody 65
Receipt Checklists 69

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7468-1

Job ID: 890-7468-1 Eurofins Carlsbad

Job Narrative
890-7468-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/13/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 37 (4') (890-7468-1), BH - 38 (4') (890-7468-2), BH - 43 (4') (890-7468-3), BH - 44 (4') (890-7468-4), BH - 45 (4') (890-7468-5), BH - 52 (3') (890-7468-6), BH - 53 (3') (890-7468-7), BH - 54 (3') (890-7468-8), BH - 55 (3') (890-7468-9), BH - 56 (3') (890-7468-10), BH - 57 (3') (890-7468-11), BH - 58 (3') (890-7468-12), BH - 60 (3') (890-7468-13), BH - 61 (3') (890-7468-14), BH - 62 (3') (890-7468-15), BH - 63 (3') (890-7468-16), BH - 64 (3') (890-7468-17), BH - 65 (3') (890-7468-18), BH - 66 (3') (890-7468-19), BH - 67 (3"0 (890-7468-20), BH - 68 (3') (890-7468-21), BH - 69 (3') (890-7468-22), BH - 70 (3') (890-7468-23), BH - 71 (3') (890-7468-24), BH - 72 (3') (890-7468-25), BH - 73 (3') (890-7468-26), BH - 74 (3') (890-7468-27), BH - 75 (3') (890-7468-28), BH - 76 (3') (890-7468-29), BH - 77 (3') (890-7468-30), SW - 31 (890-7468-31) and SW - 32 (890-7468-32).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-97909 recovered under the lower control limit for Benzene and Ethylbenzene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH - 52 (3') (890-7468-6), BH - 62 (3') (890-7468-15), BH - 64 (3') (890-7468-17), BH - 65 (3') (890-7468-18) and BH - 66 (3') (890-7468-19). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97926 and analytical batch 880-97909 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97912 and analytical batch 880-98056 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-97911 and analytical batch 880-98056 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH - 72 (3') (890-7468-25). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH - 66 (3') (890-7468-19). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-7468-A-1-B MS) and

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7468-1

Job ID: 890-7468-1 (Continued) Eurofins Carlsbad

(890-7468-A-21-C MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97925 and analytical batch 880-97958 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike (MS) recoveries for preparation batch 880-97924 and analytical batch 880-97952 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The associated samples are: BH - 69 (3') (890-7468-22), BH - 70 (3') (890-7468-23), BH - 71 (3') (890-7468-24), BH - 72 (3') (890-7468-25), BH - 73 (3') (890-7468-26), BH - 74 (3') (890-7468-27), BH - 75 (3') (890-7468-28), BH - 76 (3') (890-7468-29), BH - 77 (3') (890-7468-30), SW - 31 (890-7468-31) and (890-7468-A-22-C MS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 37 (4')

Lab Sample ID: 890-7468-1
Matrix: Solid
Date Collected: 12/10/24 08:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 12:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 12:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 12:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 12:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 12:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/16/24 09:56*	*12/16/24 12:41*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/16/24 09:56*	*12/16/24 12:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 12:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/17/24 19:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		12/16/24 08:24	12/17/24 19:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		12/16/24 08:24	12/17/24 19:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 19:19	1
Total TPH	<49.9	U F1	49.9		mg/Kg		12/16/24 08:24	12/17/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/16/24 08:24*	*12/17/24 19:19*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/16/24 08:24*	*12/17/24 19:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**137**		9.94		mg/Kg			12/16/24 15:53	1

Client Sample ID: BH - 38 (4')

Lab Sample ID: 890-7468-2
Matrix: Solid
Date Collected: 12/10/24 08:05
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 13:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 13:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 13:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 13:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 13:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/16/24 09:56*	*12/16/24 13:02*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/16/24 09:56*	*12/16/24 13:02*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 38 (4')

Lab Sample ID: 890-7468-2
Matrix: Solid
Date Collected: 12/10/24 08:05
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 13:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 20:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:04	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:04*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**317**		9.96		mg/Kg			12/16/24 15:59	1

Client Sample ID: BH - 43 (4')

Lab Sample ID: 890-7468-3
Matrix: Solid
Date Collected: 12/10/24 08:10
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 13:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 13:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 13:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 09:56	12/16/24 13:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 09:56	12/16/24 13:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/16/24 09:56*	*12/16/24 13:22*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 09:56*	*12/16/24 13:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/17/24 20:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 20:18	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 43 (4')

Lab Sample ID: 890-7468-3
Matrix: Solid
Date Collected: 12/10/24 08:10
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 20:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 20:18	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:18*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**716**		9.92		mg/Kg			12/16/24 16:16	1

Client Sample ID: BH - 44 (4')

Lab Sample ID: 890-7468-4
Matrix: Solid
Date Collected: 12/10/24 08:15
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 13:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 13:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 13:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 13:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 13:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/16/24 09:56*	*12/16/24 13:43*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/16/24 09:56*	*12/16/24 13:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 13:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 20:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 20:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 20:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 20:34	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:34*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:34*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 44 (4')

Lab Sample ID: 890-7468-4
Matrix: Solid
Date Collected: 12/10/24 08:15
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		10.1		mg/Kg			12/16/24 16:22	1

Client Sample ID: BH - 45 (4')

Lab Sample ID: 890-7468-5
Matrix: Solid
Date Collected: 12/10/24 08:20
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 14:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 14:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 14:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 14:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 14:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*12/16/24 09:56*	*12/16/24 14:03*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/16/24 09:56*	*12/16/24 14:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 14:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 20:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:48	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:48*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/16/24 08:24*	*12/17/24 20:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		10.1		mg/Kg			12/16/24 16:40	1

Client Sample ID: BH - 52 (3')

Lab Sample ID: 890-7468-6
Matrix: Solid
Date Collected: 12/10/24 08:25
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 14:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 14:24	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 52 (3')

Lab Sample ID: 890-7468-6
Matrix: Solid
Date Collected: 12/10/24 08:25
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 14:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 14:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 14:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*12/16/24 09:56*	*12/16/24 14:24*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/16/24 09:56*	*12/16/24 14:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 14:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/17/24 21:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 21:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 21:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 21:04	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:04*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		9.94		mg/Kg			12/16/24 16:46	1

Client Sample ID: BH - 53 (3')

Lab Sample ID: 890-7468-7
Matrix: Solid
Date Collected: 12/10/24 08:30
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 14:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 14:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 09:56	12/16/24 14:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 09:56	12/16/24 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*12/16/24 09:56*	*12/16/24 14:44*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/16/24 09:56*	*12/16/24 14:44*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 53 (3')

Lab Sample ID: 890-7468-7
Matrix: Solid
Date Collected: 12/10/24 08:30
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/16/24 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 21:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 21:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 21:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 21:18	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:18*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		9.90		mg/Kg			12/16/24 16:52	1

Client Sample ID: BH - 54 (3')

Lab Sample ID: 890-7468-8
Matrix: Solid
Date Collected: 12/10/24 08:35
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 15:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 15:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 15:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 15:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 15:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/16/24 09:56*	*12/16/24 15:05*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/16/24 09:56*	*12/16/24 15:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/17/24 21:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 21:33	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 54 (3')

Lab Sample ID: 890-7468-8
Matrix: Solid
Date Collected: 12/10/24 08:35
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 21:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 21:33	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:33*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**241**		10.0		mg/Kg			12/16/24 16:58	1

Client Sample ID: BH - 55 (3')

Lab Sample ID: 890-7468-9
Matrix: Solid
Date Collected: 12/10/24 08:40
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 15:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 15:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 15:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 15:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 15:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/16/24 09:56*	*12/16/24 15:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/16/24 09:56*	*12/16/24 15:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 15:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 21:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 21:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 21:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 21:47	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:47*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/16/24 08:24*	*12/17/24 21:47*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 55 (3')

Lab Sample ID: 890-7468-9
Matrix: Solid
Date Collected: 12/10/24 08:40
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	218		9.96		mg/Kg			12/16/24 17:04	1

Client Sample ID: BH - 56 (3')

Lab Sample ID: 890-7468-10
Matrix: Solid
Date Collected: 12/10/24 08:45
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 15:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 15:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 15:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 09:56	12/16/24 15:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 09:56	12/16/24 15:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*12/16/24 09:56*	*12/16/24 15:45*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/16/24 09:56*	*12/16/24 15:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 15:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 22:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 22:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 22:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 22:02	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/16/24 08:24*	*12/17/24 22:02*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:24*	*12/17/24 22:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	353		9.96		mg/Kg			12/16/24 17:09	1

Client Sample ID: BH - 57 (3')

Lab Sample ID: 890-7468-11
Matrix: Solid
Date Collected: 12/10/24 09:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 17:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 17:35	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 57 (3')

Lab Sample ID: 890-7468-11
Matrix: Solid
Date Collected: 12/10/24 09:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 17:35	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/16/24 09:56	12/16/24 17:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/16/24 09:56	12/16/24 17:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/16/24 09:56*	*12/16/24 17:35*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/16/24 09:56*	*12/16/24 17:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/16/24 17:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/17/24 22:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 22:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 22:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 22:31	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/17/24 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/16/24 08:24*	*12/17/24 22:31*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/16/24 08:24*	*12/17/24 22:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**451**		9.96		mg/Kg			12/16/24 17:15	1

Client Sample ID: BH - 58 (3')

Lab Sample ID: 890-7468-12
Matrix: Solid
Date Collected: 12/10/24 09:05
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 17:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 17:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 17:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 17:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 17:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/16/24 09:56*	*12/16/24 17:56*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/16/24 09:56*	*12/16/24 17:56*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 58 (3')

Lab Sample ID: 890-7468-12
Matrix: Solid
Date Collected: 12/10/24 09:05
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 17:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 22:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 22:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 22:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 22:46	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/16/24 08:24*	*12/17/24 22:46*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/16/24 08:24*	*12/17/24 22:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**269**		9.94		mg/Kg			12/18/24 11:03	1

Client Sample ID: BH - 60 (3')

Lab Sample ID: 890-7468-13
Matrix: Solid
Date Collected: 12/10/24 09:10
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/16/24 09:56*	*12/16/24 18:16*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 09:56*	*12/16/24 18:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 18:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 23:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:00	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 60 (3')

Lab Sample ID: 890-7468-13
Matrix: Solid
Date Collected: 12/10/24 09:10
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:00	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:00*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		9.98		mg/Kg			12/18/24 11:24	1

Client Sample ID: BH - 61 (3')

Lab Sample ID: 890-7468-14
Matrix: Solid
Date Collected: 12/10/24 09:15
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 18:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 18:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 18:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 18:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 18:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/16/24 09:56*	*12/16/24 18:37*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/16/24 09:56*	*12/16/24 18:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 18:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/17/24 23:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 23:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 23:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 23:16	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:24	12/17/24 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:16*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:16*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 61 (3')

Lab Sample ID: 890-7468-14
Matrix: Solid
Date Collected: 12/10/24 09:15
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		9.94		mg/Kg			12/18/24 11:32	1

Client Sample ID: BH - 62 (3')

Lab Sample ID: 890-7468-15
Matrix: Solid
Date Collected: 12/10/24 09:20
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 18:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 18:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*12/16/24 09:56*	*12/16/24 18:57*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/16/24 09:56*	*12/16/24 18:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 18:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 23:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:30	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/17/24 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:30*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		9.96		mg/Kg			12/18/24 11:39	1

Client Sample ID: BH - 63 (3')

Lab Sample ID: 890-7468-16
Matrix: Solid
Date Collected: 12/10/24 09:25
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 19:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 19:18	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 63 (3')

Lab Sample ID: 890-7468-16
Matrix: Solid
Date Collected: 12/10/24 09:25
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 19:18	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/16/24 09:56	12/16/24 19:18	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/16/24 09:56	12/16/24 19:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/16/24 09:56	12/16/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/16/24 09:56*	*12/16/24 19:18*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/16/24 09:56*	*12/16/24 19:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/16/24 19:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 23:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 23:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 23:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 23:45	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/17/24 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:45*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/16/24 08:24*	*12/17/24 23:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**318**		9.90		mg/Kg			12/18/24 11:46	1

Client Sample ID: BH - 64 (3')

Lab Sample ID: 890-7468-17
Matrix: Solid
Date Collected: 12/10/24 09:30
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 19:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 19:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 19:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 19:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 09:56	12/16/24 19:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 09:56	12/16/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*12/16/24 09:56*	*12/16/24 19:38*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/16/24 09:56*	*12/16/24 19:38*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 64 (3')

Lab Sample ID: 890-7468-17
Matrix: Solid
Date Collected: 12/10/24 09:30
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 19:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 00:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:00	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:24*	*12/18/24 00:00*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:24*	*12/18/24 00:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**269**		9.96		mg/Kg			12/18/24 12:07	1

Client Sample ID: BH - 65 (3')

Lab Sample ID: 890-7468-18
Matrix: Solid
Date Collected: 12/10/24 09:35
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 19:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 19:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 19:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 19:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 09:56	12/16/24 19:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 09:56	12/16/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*12/16/24 09:56*	*12/16/24 19:58*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/16/24 09:56*	*12/16/24 19:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 19:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 00:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/18/24 00:14	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 65 (3')

Lab Sample ID: 890-7468-18
Matrix: Solid
Date Collected: 12/10/24 09:35
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/18/24 00:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/18/24 00:14	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:24	12/18/24 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/16/24 08:24*	*12/18/24 00:14*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/16/24 08:24*	*12/18/24 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		10.0		mg/Kg			12/18/24 12:14	1

Client Sample ID: BH - 66 (3')

Lab Sample ID: 890-7468-19
Matrix: Solid
Date Collected: 12/10/24 09:40
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 20:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 20:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 20:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 09:56	12/16/24 20:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 09:56	12/16/24 20:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*12/16/24 09:56*	*12/16/24 20:19*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/16/24 09:56*	*12/16/24 20:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/16/24 20:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/18/24 00:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/18/24 00:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/18/24 00:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/18/24 00:30	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:24	12/18/24 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/16/24 08:24*	*12/18/24 00:30*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/16/24 08:24*	*12/18/24 00:30*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 66 (3')

Lab Sample ID: 890-7468-19
Matrix: Solid
Date Collected: 12/10/24 09:40
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		10.1		mg/Kg			12/18/24 12:22	1

Client Sample ID: BH - 67 (3"0

Lab Sample ID: 890-7468-20
Matrix: Solid
Date Collected: 12/10/24 09:45
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 20:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 20:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 20:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 20:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 09:56	12/16/24 20:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 09:56	12/16/24 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/16/24 09:56*	*12/16/24 20:39*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/16/24 09:56*	*12/16/24 20:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 20:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 00:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:45	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:24	12/18/24 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/16/24 08:24*	*12/18/24 00:45*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/16/24 08:24*	*12/18/24 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		10.1		mg/Kg			12/18/24 12:29	1

Client Sample ID: BH - 68 (3')

Lab Sample ID: 890-7468-21
Matrix: Solid
Date Collected: 12/10/24 09:50
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 12:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 12:10	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 68 (3')

Lab Sample ID: 890-7468-21
Matrix: Solid
Date Collected: 12/10/24 09:50
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 12:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 12:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 12:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/16/24 10:00*	*12/16/24 12:10*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/16/24 10:00*	*12/16/24 12:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 12:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 02:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 02:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/16/24 08:29	12/18/24 02:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 02:41	1
Total TPH	<50.0	U F1	50.0		mg/Kg		12/16/24 08:29	12/18/24 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/16/24 08:29*	*12/18/24 02:41*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/16/24 08:29*	*12/18/24 02:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**156**		10.0		mg/Kg			12/18/24 12:36	1

Client Sample ID: BH - 69 (3')

Lab Sample ID: 890-7468-22
Matrix: Solid
Date Collected: 12/10/24 09:55
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 12:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 12:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 12:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 12:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 12:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/16/24 10:00*	*12/16/24 12:31*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/16/24 10:00*	*12/16/24 12:31*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 69 (3')

Lab Sample ID: 890-7468-22
Matrix: Solid
Date Collected: 12/10/24 09:55
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 12:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 03:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 03:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 03:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 03:27	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:29*	*12/18/24 03:27*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/16/24 08:29*	*12/18/24 03:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**	**F1**	10.0		mg/Kg			12/18/24 12:43	1

Client Sample ID: BH - 70 (3')

Lab Sample ID: 890-7468-23
Matrix: Solid
Date Collected: 12/10/24 10:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 12:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 12:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 12:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 12:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 12:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/16/24 10:00*	*12/16/24 12:51*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*12/16/24 10:00*	*12/16/24 12:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 03:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 03:41	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 70 (3')

Lab Sample ID: 890-7468-23
Matrix: Solid
Date Collected: 12/10/24 10:00
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 03:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 03:41	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/16/24 08:29*	*12/18/24 03:41*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/16/24 08:29*	*12/18/24 03:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		10.0		mg/Kg			12/18/24 13:04	1

Client Sample ID: BH - 71 (3')

Lab Sample ID: 890-7468-24
Matrix: Solid
Date Collected: 12/10/24 10:05
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 13:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 13:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 13:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 13:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 13:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/16/24 10:00*	*12/16/24 13:12*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/16/24 10:00*	*12/16/24 13:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 13:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/18/24 03:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 03:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 03:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 03:56	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/16/24 08:29*	*12/18/24 03:56*	*1*
o-Terphenyl	*89*		*70 - 130*	*12/16/24 08:29*	*12/18/24 03:56*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 71 (3')

Lab Sample ID: 890-7468-24
Matrix: Solid
Date Collected: 12/10/24 10:05
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		10.0		mg/Kg			12/18/24 13:11	1

Client Sample ID: BH - 72 (3')

Lab Sample ID: 890-7468-25
Matrix: Solid
Date Collected: 12/10/24 10:10
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 13:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 13:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/16/24 10:00*	*12/16/24 13:32*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*12/16/24 10:00*	*12/16/24 13:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 13:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/18/24 04:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 04:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 04:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 04:11	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*12/16/24 08:29*	*12/18/24 04:11*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/16/24 08:29*	*12/18/24 04:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		9.92		mg/Kg			12/18/24 13:33	1

Client Sample ID: BH - 73 (3')

Lab Sample ID: 890-7468-26
Matrix: Solid
Date Collected: 12/10/24 10:15
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:53	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 73 (3')

Lab Sample ID: 890-7468-26
Matrix: Solid
Date Collected: 12/10/24 10:15
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 13:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 13:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/16/24 10:00*	*12/16/24 13:53*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*12/16/24 10:00*	*12/16/24 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/16/24 13:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/18/24 04:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:25	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/16/24 08:29*	*12/18/24 04:25*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/16/24 08:29*	*12/18/24 04:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**197**		9.98		mg/Kg			12/18/24 13:40	1

Client Sample ID: BH - 74 (3')

Lab Sample ID: 890-7468-27
Matrix: Solid
Date Collected: 12/10/24 10:20
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 14:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 14:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/16/24 10:00*	*12/16/24 14:13*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/16/24 10:00*	*12/16/24 14:13*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 74 (3')

Lab Sample ID: 890-7468-27
Matrix: Solid
Date Collected: 12/10/24 10:20
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/18/24 04:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:40	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:40	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/16/24 08:29*	*12/18/24 04:40*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/16/24 08:29*	*12/18/24 04:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		10.0		mg/Kg			12/18/24 13:47	1

Client Sample ID: BH - 75 (3')

Lab Sample ID: 890-7468-28
Matrix: Solid
Date Collected: 12/10/24 10:25
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 14:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 14:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 14:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 14:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 14:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/16/24 10:00*	*12/16/24 14:34*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/16/24 10:00*	*12/16/24 14:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 14:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 04:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 04:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 75 (3')

Lab Sample ID: 890-7468-28
Matrix: Solid
Date Collected: 12/10/24 10:25
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 04:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 04:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/16/24 08:29*	*12/18/24 04:55*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/16/24 08:29*	*12/18/24 04:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**		10.1		mg/Kg			12/18/24 13:54	1

Client Sample ID: BH - 76 (3')

Lab Sample ID: 890-7468-29
Matrix: Solid
Date Collected: 12/10/24 10:30
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 14:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 14:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/16/24 10:00*	*12/16/24 14:54*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/16/24 10:00*	*12/16/24 14:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 14:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/18/24 05:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:09	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:29*	*12/18/24 05:09*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:29*	*12/18/24 05:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 76 (3')

Lab Sample ID: 890-7468-29
Matrix: Solid
Date Collected: 12/10/24 10:30
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	329		10.1		mg/Kg			12/18/24 14:01	1

Client Sample ID: BH - 77 (3')

Lab Sample ID: 890-7468-30
Matrix: Solid
Date Collected: 12/10/24 10:35
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 15:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 15:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 15:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 15:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 15:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/16/24 10:00*	*12/16/24 15:15*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*12/16/24 10:00*	*12/16/24 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 15:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 05:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 05:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 05:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 05:23	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/16/24 08:29*	*12/18/24 05:23*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/16/24 08:29*	*12/18/24 05:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	536		10.1		mg/Kg			12/18/24 14:08	1

Client Sample ID: SW - 31

Lab Sample ID: 890-7468-31
Matrix: Solid
Date Collected: 12/10/24 10:40
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 16:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 16:39	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: SW - 31

Date Collected: 12/10/24 10:40
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7468-31

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 16:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 16:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 16:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/16/24 10:00*	*12/16/24 16:39*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/16/24 10:00*	*12/16/24 16:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 16:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/18/24 05:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:53	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:29	12/18/24 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:29*	*12/18/24 05:53*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/16/24 08:29*	*12/18/24 05:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		9.94		mg/Kg			12/18/24 14:15	1

Client Sample ID: SW - 32

Date Collected: 12/10/24 10:45
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7468-32

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 17:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 17:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/16/24 10:00*	*12/16/24 17:00*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/16/24 10:00*	*12/16/24 17:00*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: SW - 32

Date Collected: 12/10/24 10:45
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7468-32

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 06:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 06:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 06:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 06:07	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:29	12/18/24 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:07*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**324**	**F1**	10.1		mg/Kg			12/16/24 18:03	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7468-1	BH - 37 (4')	101	97
890-7468-1 MS	BH - 37 (4')	108	91
890-7468-1 MSD	BH - 37 (4')	121	97
890-7468-2	BH - 38 (4')	115	100
890-7468-3	BH - 43 (4')	111	98
890-7468-4	BH - 44 (4')	115	100
890-7468-5	BH - 45 (4')	129	108
890-7468-6	BH - 52 (3')	131 S1+	109
890-7468-7	BH - 53 (3')	128	100
890-7468-8	BH - 54 (3')	126	101
890-7468-9	BH - 55 (3')	119	101
890-7468-10	BH - 56 (3')	127	104
890-7468-11	BH - 57 (3')	102	105
890-7468-12	BH - 58 (3')	116	103
890-7468-13	BH - 60 (3')	126	107
890-7468-14	BH - 61 (3')	116	104
890-7468-15	BH - 62 (3')	134 S1+	103
890-7468-16	BH - 63 (3')	125	100
890-7468-17	BH - 64 (3')	138 S1+	110
890-7468-18	BH - 65 (3')	142 S1+	103
890-7468-19	BH - 66 (3')	135 S1+	110
890-7468-20	BH - 67 (3"0	126	103
890-7468-21	BH - 68 (3')	88	84
890-7468-21 MS	BH - 68 (3')	96	105
890-7468-21 MSD	BH - 68 (3')	101	101
890-7468-22	BH - 69 (3')	92	84
890-7468-23	BH - 70 (3')	89	82
890-7468-24	BH - 71 (3')	88	85
890-7468-25	BH - 72 (3')	92	83
890-7468-26	BH - 73 (3')	100	80
890-7468-27	BH - 74 (3')	87	97
890-7468-28	BH - 75 (3')	87	95
890-7468-29	BH - 76 (3')	88	84
890-7468-30	BH - 77 (3')	87	79
890-7468-31	SW - 31	82	92
890-7468-32	SW - 32	85	93
LCS 880-97926/1-A	Lab Control Sample	99	102
LCS 880-97927/1-A	Lab Control Sample	106	106
LCSD 880-97926/2-A	Lab Control Sample Dup	108	86
LCSD 880-97927/2-A	Lab Control Sample Dup	88	107
MB 880-97926/5-A	Method Blank	196 S1+	120
MB 880-97927/5-A	Method Blank	77	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-7468-1	BH - 37 (4')	70	73								
890-7468-1 MS	BH - 37 (4')	74	65 S1-								
890-7468-1 MSD	BH - 37 (4')	86	77								
890-7468-2	BH - 38 (4')	70	72								
890-7468-3	BH - 43 (4')	84	86								
890-7468-4	BH - 44 (4')	71	72								
890-7468-5	BH - 45 (4')	83	84								
890-7468-6	BH - 52 (3')	73	76								
890-7468-7	BH - 53 (3')	77	81								
890-7468-8	BH - 54 (3')	76	78								
890-7468-9	BH - 55 (3')	70	72								
890-7468-10	BH - 56 (3')	72	75								
890-7468-11	BH - 57 (3')	75	77								
890-7468-12	BH - 58 (3')	70	72								
890-7468-13	BH - 60 (3')	78	79								
890-7468-14	BH - 61 (3')	70	72								
890-7468-15	BH - 62 (3')	73	78								
890-7468-16	BH - 63 (3')	73	76								
890-7468-17	BH - 64 (3')	73	75								
890-7468-18	BH - 65 (3')	82	84								
890-7468-19	BH - 66 (3')	68 S1-	70								
890-7468-20	BH - 67 (3"0	84	86								
890-7468-21	BH - 68 (3')	70	72								
890-7468-21 MS	BH - 68 (3')	78	70								
890-7468-21 MSD	BH - 68 (3')	77	69 S1-								
890-7468-22	BH - 69 (3')	73	74								
890-7468-23	BH - 70 (3')	71	73								
890-7468-24	BH - 71 (3')	89	89								
890-7468-25	BH - 72 (3')	65 S1-	67 S1-								
890-7468-26	BH - 73 (3')	79	81								
890-7468-27	BH - 74 (3')	78	80								
890-7468-28	BH - 75 (3')	79	81								
890-7468-29	BH - 76 (3')	73	75								
890-7468-30	BH - 77 (3')	82	83								
890-7468-31	SW - 31	73	74								
890-7468-32	SW - 32	82	84								
LCS 880-97911/2-A	Lab Control Sample	117	104								
LCS 880-97912/2-A	Lab Control Sample	110	100								
LCSD 880-97911/3-A	Lab Control Sample Dup	116	103								
LCSD 880-97912/3-A	Lab Control Sample Dup	122	110								
MB 880-97911/1-A	Method Blank	73	74								
MB 880-97912/1-A	Method Blank	86	89								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97926/5-A
Matrix: Solid
Analysis Batch: 97909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 12:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 12:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 12:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 09:56	12/16/24 12:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 09:56	12/16/24 12:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 09:56	12/16/24 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*196*	*S1+*	*70 - 130*	*12/16/24 09:56*	*12/16/24 12:13*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*12/16/24 09:56*	*12/16/24 12:13*	*1*

Lab Sample ID: LCS 880-97926/1-A
Matrix: Solid
Analysis Batch: 97909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09511		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.07777		mg/Kg		78	70 - 130		
Toluene			0.100	0.1092		mg/Kg		109	70 - 130		
m-Xylene & p-Xylene			0.200	0.2140		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1198		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-97926/2-A
Matrix: Solid
Analysis Batch: 97909

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97926

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08769		mg/Kg		88	70 - 130	8	35
Ethylbenzene			0.100	0.09151		mg/Kg		92	70 - 130	16	35
Toluene			0.100	0.1048		mg/Kg		105	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1813		mg/Kg		91	70 - 130	17	35
o-Xylene			0.100	0.1079		mg/Kg		108	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 890-7468-1 MS
Matrix: Solid
Analysis Batch: 97909

Client Sample ID: BH - 37 (4')
Prep Type: Total/NA
Prep Batch: 97926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.07733		mg/Kg		77	70 - 130		
Ethylbenzene	<0.00202	U	0.100	0.08405		mg/Kg		84	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7468-1 MS
Matrix: Solid
Analysis Batch: 97909

Client Sample ID: BH - 37 (4')
Prep Type: Total/NA
Prep Batch: 97926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00202	U	0.100	0.09486		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1871		mg/Kg		94	70 - 130
o-Xylene	<0.00202	U	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 890-7468-1 MSD
Matrix: Solid
Analysis Batch: 97909

Client Sample ID: BH - 37 (4')
Prep Type: Total/NA
Prep Batch: 97926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08938		mg/Kg		89	70 - 130	14	35
Ethylbenzene	<0.00202	U	0.100	0.09608		mg/Kg		96	70 - 130	13	35
Toluene	<0.00202	U	0.100	0.09738		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2132		mg/Kg		107	70 - 130	13	35
o-Xylene	<0.00202	U	0.100	0.1154		mg/Kg		115	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-97927/5-A
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*12/16/24 10:00*	*12/16/24 11:49*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/16/24 10:00*	*12/16/24 11:49*	*1*

Lab Sample ID: LCS 880-97927/1-A
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09498		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1192		mg/Kg		119	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2318		mg/Kg		116	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-97927/1-A
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1178		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-97927/2-A
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09035		mg/Kg		90	70 - 130	5	35
Ethylbenzene			0.100	0.08855		mg/Kg		89	70 - 130	29	35
Toluene			0.100	0.09478		mg/Kg		95	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1762		mg/Kg		88	70 - 130	27	35
o-Xylene			0.100	0.08891		mg/Kg		89	70 - 130	28	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-7468-21 MS
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: BH - 68 (3')
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08523		mg/Kg		85	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09003		mg/Kg		90	70 - 130		
Toluene	<0.00200	U	0.100	0.09218		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1749		mg/Kg		87	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08878		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-7468-21 MSD
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: BH - 68 (3')
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08083		mg/Kg		81	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.09632		mg/Kg		96	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.08558		mg/Kg		86	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1862		mg/Kg		93	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.09382		mg/Kg		94	70 - 130	6	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7468-21 MSD
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: BH - 68 (3')
Prep Type: Total/NA
Prep Batch: 97927

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-97911/1-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:23	12/17/24 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:23	12/17/24 18:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:23	12/17/24 18:36	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:23	12/17/24 18:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*73*		*70 - 130*	*12/16/24 08:23*	*12/17/24 18:36*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/16/24 08:23*	*12/17/24 18:36*	*1*

Lab Sample ID: LCS 880-97911/2-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97911

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1067		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1005		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-97911/3-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97911

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1055		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	998.5		mg/Kg		100	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7468-1 MS — **Client Sample ID: BH - 37 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98056 — **Prep Batch: 97911**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	690.0	F1	mg/Kg		69	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	604.5	F1	mg/Kg		60	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*
o-Terphenyl	*65*	*S1-*	*70 - 130*

Lab Sample ID: 890-7468-1 MSD — **Client Sample ID: BH - 37 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98056 — **Prep Batch: 97911**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	824.1		mg/Kg		82	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	718.6		mg/Kg		72	70 - 130	17	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: MB 880-97912/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98056 — **Prep Batch: 97912**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/16/24 08:29*	*12/18/24 01:44*	*1*
o-Terphenyl	*89*		*70 - 130*	*12/16/24 08:29*	*12/18/24 01:44*	*1*

Lab Sample ID: LCS 880-97912/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98056 — **Prep Batch: 97912**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1065		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1029		mg/Kg		103	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-97912/2-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97912

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-97912/3-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97912

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1136		mg/Kg		114	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1094		mg/Kg		109	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-7468-21 MS
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: BH - 68 (3')
Prep Type: Total/NA
Prep Batch: 97912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	711.9		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	640.7	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	70		70 - 130

Lab Sample ID: 890-7468-21 MSD
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: BH - 68 (3')
Prep Type: Total/NA
Prep Batch: 97912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	701.9		mg/Kg		70	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	618.0	F1	mg/Kg		62	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	69	S1-	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97923/1-A
Matrix: Solid
Analysis Batch: 97950

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/16/24 14:18	1

Lab Sample ID: LCS 880-97923/2-A
Matrix: Solid
Analysis Batch: 97950

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.1		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-97923/3-A
Matrix: Solid
Analysis Batch: 97950

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-7468-2 MS
Matrix: Solid
Analysis Batch: 97950

Client Sample ID: BH - 38 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	317		249	560.4		mg/Kg		98	90 - 110		

Lab Sample ID: 890-7468-2 MSD
Matrix: Solid
Analysis Batch: 97950

Client Sample ID: BH - 38 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	317		249	559.1		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-97924/1-A
Matrix: Solid
Analysis Batch: 97952

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/18/24 10:41	1

Lab Sample ID: LCS 880-97924/2-A
Matrix: Solid
Analysis Batch: 97952

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.6		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-97924/3-A
Matrix: Solid
Analysis Batch: 97952

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	271.9		mg/Kg		109	90 - 110	1	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7468-12 MS
Matrix: Solid
Analysis Batch: 97952

Client Sample ID: BH - 58 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	269		249	523.9		mg/Kg		102	90 - 110

Lab Sample ID: 890-7468-12 MSD
Matrix: Solid
Analysis Batch: 97952

Client Sample ID: BH - 58 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	269		249	532.4		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 890-7468-22 MS
Matrix: Solid
Analysis Batch: 97952

Client Sample ID: BH - 69 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	107	F1	250	386.3	F1	mg/Kg		112	90 - 110

Lab Sample ID: 890-7468-22 MSD
Matrix: Solid
Analysis Batch: 97952

Client Sample ID: BH - 69 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	107	F1	250	382.6		mg/Kg		110	90 - 110	1	20

Lab Sample ID: MB 880-97925/1-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/16/24 17:45	1

Lab Sample ID: LCS 880-97925/2-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-97925/3-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7468-32 MS
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: SW - 32
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	324	F1	252	601.8	F1	mg/Kg		111	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7468-32 MSD
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: SW - 32
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	324	F1	252	603.4	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

GC VOA

Analysis Batch: 97909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Total/NA	Solid	8021B	97926
890-7468-2	BH - 38 (4')	Total/NA	Solid	8021B	97926
890-7468-3	BH - 43 (4')	Total/NA	Solid	8021B	97926
890-7468-4	BH - 44 (4')	Total/NA	Solid	8021B	97926
890-7468-5	BH - 45 (4')	Total/NA	Solid	8021B	97926
890-7468-6	BH - 52 (3')	Total/NA	Solid	8021B	97926
890-7468-7	BH - 53 (3')	Total/NA	Solid	8021B	97926
890-7468-8	BH - 54 (3')	Total/NA	Solid	8021B	97926
890-7468-9	BH - 55 (3')	Total/NA	Solid	8021B	97926
890-7468-10	BH - 56 (3')	Total/NA	Solid	8021B	97926
890-7468-11	BH - 57 (3')	Total/NA	Solid	8021B	97926
890-7468-12	BH - 58 (3')	Total/NA	Solid	8021B	97926
890-7468-13	BH - 60 (3')	Total/NA	Solid	8021B	97926
890-7468-14	BH - 61 (3')	Total/NA	Solid	8021B	97926
890-7468-15	BH - 62 (3')	Total/NA	Solid	8021B	97926
890-7468-16	BH - 63 (3')	Total/NA	Solid	8021B	97926
890-7468-17	BH - 64 (3')	Total/NA	Solid	8021B	97926
890-7468-18	BH - 65 (3')	Total/NA	Solid	8021B	97926
890-7468-19	BH - 66 (3')	Total/NA	Solid	8021B	97926
890-7468-20	BH - 67 (3"0	Total/NA	Solid	8021B	97926
MB 880-97926/5-A	Method Blank	Total/NA	Solid	8021B	97926
LCS 880-97926/1-A	Lab Control Sample	Total/NA	Solid	8021B	97926
LCSD 880-97926/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97926
890-7468-1 MS	BH - 37 (4')	Total/NA	Solid	8021B	97926
890-7468-1 MSD	BH - 37 (4')	Total/NA	Solid	8021B	97926

Analysis Batch: 97910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-21	BH - 68 (3')	Total/NA	Solid	8021B	97927
890-7468-22	BH - 69 (3')	Total/NA	Solid	8021B	97927
890-7468-23	BH - 70 (3')	Total/NA	Solid	8021B	97927
890-7468-24	BH - 71 (3')	Total/NA	Solid	8021B	97927
890-7468-25	BH - 72 (3')	Total/NA	Solid	8021B	97927
890-7468-26	BH - 73 (3')	Total/NA	Solid	8021B	97927
890-7468-27	BH - 74 (3')	Total/NA	Solid	8021B	97927
890-7468-28	BH - 75 (3')	Total/NA	Solid	8021B	97927
890-7468-29	BH - 76 (3')	Total/NA	Solid	8021B	97927
890-7468-30	BH - 77 (3')	Total/NA	Solid	8021B	97927
890-7468-31	SW - 31	Total/NA	Solid	8021B	97927
890-7468-32	SW - 32	Total/NA	Solid	8021B	97927
MB 880-97927/5-A	Method Blank	Total/NA	Solid	8021B	97927
LCS 880-97927/1-A	Lab Control Sample	Total/NA	Solid	8021B	97927
LCSD 880-97927/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97927
890-7468-21 MS	BH - 68 (3')	Total/NA	Solid	8021B	97927
890-7468-21 MSD	BH - 68 (3')	Total/NA	Solid	8021B	97927

Prep Batch: 97926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Total/NA	Solid	5035	
890-7468-2	BH - 38 (4')	Total/NA	Solid	5035	
890-7468-3	BH - 43 (4')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

GC VOA (Continued)

Prep Batch: 97926 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-4	BH - 44 (4')	Total/NA	Solid	5035	
890-7468-5	BH - 45 (4')	Total/NA	Solid	5035	
890-7468-6	BH - 52 (3')	Total/NA	Solid	5035	
890-7468-7	BH - 53 (3')	Total/NA	Solid	5035	
890-7468-8	BH - 54 (3')	Total/NA	Solid	5035	
890-7468-9	BH - 55 (3')	Total/NA	Solid	5035	
890-7468-10	BH - 56 (3')	Total/NA	Solid	5035	
890-7468-11	BH - 57 (3')	Total/NA	Solid	5035	
890-7468-12	BH - 58 (3')	Total/NA	Solid	5035	
890-7468-13	BH - 60 (3')	Total/NA	Solid	5035	
890-7468-14	BH - 61 (3')	Total/NA	Solid	5035	
890-7468-15	BH - 62 (3')	Total/NA	Solid	5035	
890-7468-16	BH - 63 (3')	Total/NA	Solid	5035	
890-7468-17	BH - 64 (3')	Total/NA	Solid	5035	
890-7468-18	BH - 65 (3')	Total/NA	Solid	5035	
890-7468-19	BH - 66 (3')	Total/NA	Solid	5035	
890-7468-20	BH - 67 (3"0	Total/NA	Solid	5035	
MB 880-97926/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97926/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97926/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7468-1 MS	BH - 37 (4')	Total/NA	Solid	5035	
890-7468-1 MSD	BH - 37 (4')	Total/NA	Solid	5035	

Prep Batch: 97927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-21	BH - 68 (3')	Total/NA	Solid	5035	
890-7468-22	BH - 69 (3')	Total/NA	Solid	5035	
890-7468-23	BH - 70 (3')	Total/NA	Solid	5035	
890-7468-24	BH - 71 (3')	Total/NA	Solid	5035	
890-7468-25	BH - 72 (3')	Total/NA	Solid	5035	
890-7468-26	BH - 73 (3')	Total/NA	Solid	5035	
890-7468-27	BH - 74 (3')	Total/NA	Solid	5035	
890-7468-28	BH - 75 (3')	Total/NA	Solid	5035	
890-7468-29	BH - 76 (3')	Total/NA	Solid	5035	
890-7468-30	BH - 77 (3')	Total/NA	Solid	5035	
890-7468-31	SW - 31	Total/NA	Solid	5035	
890-7468-32	SW - 32	Total/NA	Solid	5035	
MB 880-97927/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97927/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97927/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7468-21 MS	BH - 68 (3')	Total/NA	Solid	5035	
890-7468-21 MSD	BH - 68 (3')	Total/NA	Solid	5035	

Analysis Batch: 98021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Total/NA	Solid	Total BTEX	
890-7468-2	BH - 38 (4')	Total/NA	Solid	Total BTEX	
890-7468-3	BH - 43 (4')	Total/NA	Solid	Total BTEX	
890-7468-4	BH - 44 (4')	Total/NA	Solid	Total BTEX	
890-7468-5	BH - 45 (4')	Total/NA	Solid	Total BTEX	
890-7468-6	BH - 52 (3')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

GC VOA (Continued)

Analysis Batch: 98021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-7	BH - 53 (3')	Total/NA	Solid	Total BTEX	
890-7468-8	BH - 54 (3')	Total/NA	Solid	Total BTEX	
890-7468-9	BH - 55 (3')	Total/NA	Solid	Total BTEX	
890-7468-10	BH - 56 (3')	Total/NA	Solid	Total BTEX	
890-7468-11	BH - 57 (3')	Total/NA	Solid	Total BTEX	
890-7468-12	BH - 58 (3')	Total/NA	Solid	Total BTEX	
890-7468-13	BH - 60 (3')	Total/NA	Solid	Total BTEX	
890-7468-14	BH - 61 (3')	Total/NA	Solid	Total BTEX	
890-7468-15	BH - 62 (3')	Total/NA	Solid	Total BTEX	
890-7468-16	BH - 63 (3')	Total/NA	Solid	Total BTEX	
890-7468-17	BH - 64 (3')	Total/NA	Solid	Total BTEX	
890-7468-18	BH - 65 (3')	Total/NA	Solid	Total BTEX	
890-7468-19	BH - 66 (3')	Total/NA	Solid	Total BTEX	
890-7468-20	BH - 67 (3"0	Total/NA	Solid	Total BTEX	
890-7468-21	BH - 68 (3')	Total/NA	Solid	Total BTEX	
890-7468-22	BH - 69 (3')	Total/NA	Solid	Total BTEX	
890-7468-23	BH - 70 (3')	Total/NA	Solid	Total BTEX	
890-7468-24	BH - 71 (3')	Total/NA	Solid	Total BTEX	
890-7468-25	BH - 72 (3')	Total/NA	Solid	Total BTEX	
890-7468-26	BH - 73 (3')	Total/NA	Solid	Total BTEX	
890-7468-27	BH - 74 (3')	Total/NA	Solid	Total BTEX	
890-7468-28	BH - 75 (3')	Total/NA	Solid	Total BTEX	
890-7468-29	BH - 76 (3')	Total/NA	Solid	Total BTEX	
890-7468-30	BH - 77 (3')	Total/NA	Solid	Total BTEX	
890-7468-31	SW - 31	Total/NA	Solid	Total BTEX	
890-7468-32	SW - 32	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Total/NA	Solid	8015NM Prep	
890-7468-2	BH - 38 (4')	Total/NA	Solid	8015NM Prep	
890-7468-3	BH - 43 (4')	Total/NA	Solid	8015NM Prep	
890-7468-4	BH - 44 (4')	Total/NA	Solid	8015NM Prep	
890-7468-5	BH - 45 (4')	Total/NA	Solid	8015NM Prep	
890-7468-6	BH - 52 (3')	Total/NA	Solid	8015NM Prep	
890-7468-7	BH - 53 (3')	Total/NA	Solid	8015NM Prep	
890-7468-8	BH - 54 (3')	Total/NA	Solid	8015NM Prep	
890-7468-9	BH - 55 (3')	Total/NA	Solid	8015NM Prep	
890-7468-10	BH - 56 (3')	Total/NA	Solid	8015NM Prep	
890-7468-11	BH - 57 (3')	Total/NA	Solid	8015NM Prep	
890-7468-12	BH - 58 (3')	Total/NA	Solid	8015NM Prep	
890-7468-13	BH - 60 (3')	Total/NA	Solid	8015NM Prep	
890-7468-14	BH - 61 (3')	Total/NA	Solid	8015NM Prep	
890-7468-15	BH - 62 (3')	Total/NA	Solid	8015NM Prep	
890-7468-16	BH - 63 (3')	Total/NA	Solid	8015NM Prep	
890-7468-17	BH - 64 (3')	Total/NA	Solid	8015NM Prep	
890-7468-18	BH - 65 (3')	Total/NA	Solid	8015NM Prep	
890-7468-19	BH - 66 (3')	Total/NA	Solid	8015NM Prep	
890-7468-20	BH - 67 (3"0	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

GC Semi VOA (Continued)

Prep Batch: 97911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-97911/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97911/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7468-1 MS	BH - 37 (4')	Total/NA	Solid	8015NM Prep	
890-7468-1 MSD	BH - 37 (4')	Total/NA	Solid	8015NM Prep	

Prep Batch: 97912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-21	BH - 68 (3')	Total/NA	Solid	8015NM Prep	
890-7468-22	BH - 69 (3')	Total/NA	Solid	8015NM Prep	
890-7468-23	BH - 70 (3')	Total/NA	Solid	8015NM Prep	
890-7468-24	BH - 71 (3')	Total/NA	Solid	8015NM Prep	
890-7468-25	BH - 72 (3')	Total/NA	Solid	8015NM Prep	
890-7468-26	BH - 73 (3')	Total/NA	Solid	8015NM Prep	
890-7468-27	BH - 74 (3')	Total/NA	Solid	8015NM Prep	
890-7468-28	BH - 75 (3')	Total/NA	Solid	8015NM Prep	
890-7468-29	BH - 76 (3')	Total/NA	Solid	8015NM Prep	
890-7468-30	BH - 77 (3')	Total/NA	Solid	8015NM Prep	
890-7468-31	SW - 31	Total/NA	Solid	8015NM Prep	
890-7468-32	SW - 32	Total/NA	Solid	8015NM Prep	
MB 880-97912/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97912/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7468-21 MS	BH - 68 (3')	Total/NA	Solid	8015NM Prep	
890-7468-21 MSD	BH - 68 (3')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Total/NA	Solid	8015B NM	97911
890-7468-2	BH - 38 (4')	Total/NA	Solid	8015B NM	97911
890-7468-3	BH - 43 (4')	Total/NA	Solid	8015B NM	97911
890-7468-4	BH - 44 (4')	Total/NA	Solid	8015B NM	97911
890-7468-5	BH - 45 (4')	Total/NA	Solid	8015B NM	97911
890-7468-6	BH - 52 (3')	Total/NA	Solid	8015B NM	97911
890-7468-7	BH - 53 (3')	Total/NA	Solid	8015B NM	97911
890-7468-8	BH - 54 (3')	Total/NA	Solid	8015B NM	97911
890-7468-9	BH - 55 (3')	Total/NA	Solid	8015B NM	97911
890-7468-10	BH - 56 (3')	Total/NA	Solid	8015B NM	97911
890-7468-11	BH - 57 (3')	Total/NA	Solid	8015B NM	97911
890-7468-12	BH - 58 (3')	Total/NA	Solid	8015B NM	97911
890-7468-13	BH - 60 (3')	Total/NA	Solid	8015B NM	97911
890-7468-14	BH - 61 (3')	Total/NA	Solid	8015B NM	97911
890-7468-15	BH - 62 (3')	Total/NA	Solid	8015B NM	97911
890-7468-16	BH - 63 (3')	Total/NA	Solid	8015B NM	97911
890-7468-17	BH - 64 (3')	Total/NA	Solid	8015B NM	97911
890-7468-18	BH - 65 (3')	Total/NA	Solid	8015B NM	97911
890-7468-19	BH - 66 (3')	Total/NA	Solid	8015B NM	97911
890-7468-20	BH - 67 (3"0	Total/NA	Solid	8015B NM	97911
890-7468-21	BH - 68 (3')	Total/NA	Solid	8015B NM	97912
890-7468-22	BH - 69 (3')	Total/NA	Solid	8015B NM	97912
890-7468-23	BH - 70 (3')	Total/NA	Solid	8015B NM	97912

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

GC Semi VOA (Continued)

Analysis Batch: 98056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-24	BH - 71 (3')	Total/NA	Solid	8015B NM	97912
890-7468-25	BH - 72 (3')	Total/NA	Solid	8015B NM	97912
890-7468-26	BH - 73 (3')	Total/NA	Solid	8015B NM	97912
890-7468-27	BH - 74 (3')	Total/NA	Solid	8015B NM	97912
890-7468-28	BH - 75 (3')	Total/NA	Solid	8015B NM	97912
890-7468-29	BH - 76 (3')	Total/NA	Solid	8015B NM	97912
890-7468-30	BH - 77 (3')	Total/NA	Solid	8015B NM	97912
890-7468-31	SW - 31	Total/NA	Solid	8015B NM	97912
890-7468-32	SW - 32	Total/NA	Solid	8015B NM	97912
MB 880-97911/1-A	Method Blank	Total/NA	Solid	8015B NM	97911
MB 880-97912/1-A	Method Blank	Total/NA	Solid	8015B NM	97912
LCS 880-97911/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97911
LCS 880-97912/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97912
LCSD 880-97911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97911
LCSD 880-97912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97912
890-7468-1 MS	BH - 37 (4')	Total/NA	Solid	8015B NM	97911
890-7468-1 MSD	BH - 37 (4')	Total/NA	Solid	8015B NM	97911
890-7468-21 MS	BH - 68 (3')	Total/NA	Solid	8015B NM	97912
890-7468-21 MSD	BH - 68 (3')	Total/NA	Solid	8015B NM	97912

Analysis Batch: 98161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Total/NA	Solid	8015 NM	
890-7468-2	BH - 38 (4')	Total/NA	Solid	8015 NM	
890-7468-3	BH - 43 (4')	Total/NA	Solid	8015 NM	
890-7468-4	BH - 44 (4')	Total/NA	Solid	8015 NM	
890-7468-5	BH - 45 (4')	Total/NA	Solid	8015 NM	
890-7468-6	BH - 52 (3')	Total/NA	Solid	8015 NM	
890-7468-7	BH - 53 (3')	Total/NA	Solid	8015 NM	
890-7468-8	BH - 54 (3')	Total/NA	Solid	8015 NM	
890-7468-9	BH - 55 (3')	Total/NA	Solid	8015 NM	
890-7468-10	BH - 56 (3')	Total/NA	Solid	8015 NM	
890-7468-11	BH - 57 (3')	Total/NA	Solid	8015 NM	
890-7468-12	BH - 58 (3')	Total/NA	Solid	8015 NM	
890-7468-13	BH - 60 (3')	Total/NA	Solid	8015 NM	
890-7468-14	BH - 61 (3')	Total/NA	Solid	8015 NM	
890-7468-15	BH - 62 (3')	Total/NA	Solid	8015 NM	
890-7468-16	BH - 63 (3')	Total/NA	Solid	8015 NM	
890-7468-17	BH - 64 (3')	Total/NA	Solid	8015 NM	
890-7468-18	BH - 65 (3')	Total/NA	Solid	8015 NM	
890-7468-19	BH - 66 (3')	Total/NA	Solid	8015 NM	
890-7468-20	BH - 67 (3"0	Total/NA	Solid	8015 NM	
890-7468-21	BH - 68 (3')	Total/NA	Solid	8015 NM	
890-7468-22	BH - 69 (3')	Total/NA	Solid	8015 NM	
890-7468-23	BH - 70 (3')	Total/NA	Solid	8015 NM	
890-7468-24	BH - 71 (3')	Total/NA	Solid	8015 NM	
890-7468-25	BH - 72 (3')	Total/NA	Solid	8015 NM	
890-7468-26	BH - 73 (3')	Total/NA	Solid	8015 NM	
890-7468-27	BH - 74 (3')	Total/NA	Solid	8015 NM	
890-7468-28	BH - 75 (3')	Total/NA	Solid	8015 NM	
890-7468-29	BH - 76 (3')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

GC Semi VOA (Continued)

Analysis Batch: 98161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-30	BH - 77 (3')	Total/NA	Solid	8015 NM	
890-7468-31	SW - 31	Total/NA	Solid	8015 NM	
890-7468-32	SW - 32	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Soluble	Solid	DI Leach	
890-7468-2	BH - 38 (4')	Soluble	Solid	DI Leach	
890-7468-3	BH - 43 (4')	Soluble	Solid	DI Leach	
890-7468-4	BH - 44 (4')	Soluble	Solid	DI Leach	
890-7468-5	BH - 45 (4')	Soluble	Solid	DI Leach	
890-7468-6	BH - 52 (3')	Soluble	Solid	DI Leach	
890-7468-7	BH - 53 (3')	Soluble	Solid	DI Leach	
890-7468-8	BH - 54 (3')	Soluble	Solid	DI Leach	
890-7468-9	BH - 55 (3')	Soluble	Solid	DI Leach	
890-7468-10	BH - 56 (3')	Soluble	Solid	DI Leach	
890-7468-11	BH - 57 (3')	Soluble	Solid	DI Leach	
MB 880-97923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7468-2 MS	BH - 38 (4')	Soluble	Solid	DI Leach	
890-7468-2 MSD	BH - 38 (4')	Soluble	Solid	DI Leach	

Leach Batch: 97924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-12	BH - 58 (3')	Soluble	Solid	DI Leach	
890-7468-13	BH - 60 (3')	Soluble	Solid	DI Leach	
890-7468-14	BH - 61 (3')	Soluble	Solid	DI Leach	
890-7468-15	BH - 62 (3')	Soluble	Solid	DI Leach	
890-7468-16	BH - 63 (3')	Soluble	Solid	DI Leach	
890-7468-17	BH - 64 (3')	Soluble	Solid	DI Leach	
890-7468-18	BH - 65 (3')	Soluble	Solid	DI Leach	
890-7468-19	BH - 66 (3')	Soluble	Solid	DI Leach	
890-7468-20	BH - 67 (3"0	Soluble	Solid	DI Leach	
890-7468-21	BH - 68 (3')	Soluble	Solid	DI Leach	
890-7468-22	BH - 69 (3')	Soluble	Solid	DI Leach	
890-7468-23	BH - 70 (3')	Soluble	Solid	DI Leach	
890-7468-24	BH - 71 (3')	Soluble	Solid	DI Leach	
890-7468-25	BH - 72 (3')	Soluble	Solid	DI Leach	
890-7468-26	BH - 73 (3')	Soluble	Solid	DI Leach	
890-7468-27	BH - 74 (3')	Soluble	Solid	DI Leach	
890-7468-28	BH - 75 (3')	Soluble	Solid	DI Leach	
890-7468-29	BH - 76 (3')	Soluble	Solid	DI Leach	
890-7468-30	BH - 77 (3')	Soluble	Solid	DI Leach	
890-7468-31	SW - 31	Soluble	Solid	DI Leach	
MB 880-97924/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97924/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97924/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7468-12 MS	BH - 58 (3')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

HPLC/IC (Continued)

Leach Batch: 97924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-12 MSD	BH - 58 (3')	Soluble	Solid	DI Leach	
890-7468-22 MS	BH - 69 (3')	Soluble	Solid	DI Leach	
890-7468-22 MSD	BH - 69 (3')	Soluble	Solid	DI Leach	

Leach Batch: 97925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-32	SW - 32	Soluble	Solid	DI Leach	
MB 880-97925/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7468-32 MS	SW - 32	Soluble	Solid	DI Leach	
890-7468-32 MSD	SW - 32	Soluble	Solid	DI Leach	

Analysis Batch: 97950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-1	BH - 37 (4')	Soluble	Solid	300.0	97923
890-7468-2	BH - 38 (4')	Soluble	Solid	300.0	97923
890-7468-3	BH - 43 (4')	Soluble	Solid	300.0	97923
890-7468-4	BH - 44 (4')	Soluble	Solid	300.0	97923
890-7468-5	BH - 45 (4')	Soluble	Solid	300.0	97923
890-7468-6	BH - 52 (3')	Soluble	Solid	300.0	97923
890-7468-7	BH - 53 (3')	Soluble	Solid	300.0	97923
890-7468-8	BH - 54 (3')	Soluble	Solid	300.0	97923
890-7468-9	BH - 55 (3')	Soluble	Solid	300.0	97923
890-7468-10	BH - 56 (3')	Soluble	Solid	300.0	97923
890-7468-11	BH - 57 (3')	Soluble	Solid	300.0	97923
MB 880-97923/1-A	Method Blank	Soluble	Solid	300.0	97923
LCS 880-97923/2-A	Lab Control Sample	Soluble	Solid	300.0	97923
LCSD 880-97923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97923
890-7468-2 MS	BH - 38 (4')	Soluble	Solid	300.0	97923
890-7468-2 MSD	BH - 38 (4')	Soluble	Solid	300.0	97923

Analysis Batch: 97952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-12	BH - 58 (3')	Soluble	Solid	300.0	97924
890-7468-13	BH - 60 (3')	Soluble	Solid	300.0	97924
890-7468-14	BH - 61 (3')	Soluble	Solid	300.0	97924
890-7468-15	BH - 62 (3')	Soluble	Solid	300.0	97924
890-7468-16	BH - 63 (3')	Soluble	Solid	300.0	97924
890-7468-17	BH - 64 (3')	Soluble	Solid	300.0	97924
890-7468-18	BH - 65 (3')	Soluble	Solid	300.0	97924
890-7468-19	BH - 66 (3')	Soluble	Solid	300.0	97924
890-7468-20	BH - 67 (3"0	Soluble	Solid	300.0	97924
890-7468-21	BH - 68 (3')	Soluble	Solid	300.0	97924
890-7468-22	BH - 69 (3')	Soluble	Solid	300.0	97924
890-7468-23	BH - 70 (3')	Soluble	Solid	300.0	97924
890-7468-24	BH - 71 (3')	Soluble	Solid	300.0	97924
890-7468-25	BH - 72 (3')	Soluble	Solid	300.0	97924
890-7468-26	BH - 73 (3')	Soluble	Solid	300.0	97924
890-7468-27	BH - 74 (3')	Soluble	Solid	300.0	97924
890-7468-28	BH - 75 (3')	Soluble	Solid	300.0	97924

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

HPLC/IC (Continued)

Analysis Batch: 97952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-29	BH - 76 (3')	Soluble	Solid	300.0	97924
890-7468-30	BH - 77 (3')	Soluble	Solid	300.0	97924
890-7468-31	SW - 31	Soluble	Solid	300.0	97924
MB 880-97924/1-A	Method Blank	Soluble	Solid	300.0	97924
LCS 880-97924/2-A	Lab Control Sample	Soluble	Solid	300.0	97924
LCSD 880-97924/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97924
890-7468-12 MS	BH - 58 (3')	Soluble	Solid	300.0	97924
890-7468-12 MSD	BH - 58 (3')	Soluble	Solid	300.0	97924
890-7468-22 MS	BH - 69 (3')	Soluble	Solid	300.0	97924
890-7468-22 MSD	BH - 69 (3')	Soluble	Solid	300.0	97924

Analysis Batch: 97958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7468-32	SW - 32	Soluble	Solid	300.0	97925
MB 880-97925/1-A	Method Blank	Soluble	Solid	300.0	97925
LCS 880-97925/2-A	Lab Control Sample	Soluble	Solid	300.0	97925
LCSD 880-97925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97925
890-7468-32 MS	SW - 32	Soluble	Solid	300.0	97925
890-7468-32 MSD	SW - 32	Soluble	Solid	300.0	97925

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 37 (4')

Lab Sample ID: 890-7468-1
Matrix: Solid
Date Collected: 12/10/24 08:00
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 12:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 19:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 19:19	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 15:53	CH	EET MID

Client Sample ID: BH - 38 (4')

Lab Sample ID: 890-7468-2
Matrix: Solid
Date Collected: 12/10/24 08:05
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 13:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 13:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 20:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 20:04	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 15:59	CH	EET MID

Client Sample ID: BH - 43 (4')

Lab Sample ID: 890-7468-3
Matrix: Solid
Date Collected: 12/10/24 08:10
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 13:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 20:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 20:18	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 16:16	CH	EET MID

Client Sample ID: BH - 44 (4')

Lab Sample ID: 890-7468-4
Matrix: Solid
Date Collected: 12/10/24 08:15
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 13:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 13:43	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 44 (4')

Lab Sample ID: 890-7468-4
Matrix: Solid
Date Collected: 12/10/24 08:15
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98161	12/17/24 20:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 20:34	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 16:22	CH	EET MID

Client Sample ID: BH - 45 (4')

Lab Sample ID: 890-7468-5
Matrix: Solid
Date Collected: 12/10/24 08:20
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 14:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 20:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 20:48	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 16:40	CH	EET MID

Client Sample ID: BH - 52 (3')

Lab Sample ID: 890-7468-6
Matrix: Solid
Date Collected: 12/10/24 08:25
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 21:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 21:04	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 16:46	CH	EET MID

Client Sample ID: BH - 53 (3')

Lab Sample ID: 890-7468-7
Matrix: Solid
Date Collected: 12/10/24 08:30
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 14:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 21:18	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 53 (3')

Lab Sample ID: 890-7468-7
Matrix: Solid
Date Collected: 12/10/24 08:30
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 16:52	CH	EET MID

Client Sample ID: BH - 54 (3')

Lab Sample ID: 890-7468-8
Matrix: Solid
Date Collected: 12/10/24 08:35
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 21:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 21:33	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 16:58	CH	EET MID

Client Sample ID: BH - 55 (3')

Lab Sample ID: 890-7468-9
Matrix: Solid
Date Collected: 12/10/24 08:40
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 15:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 21:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 21:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 17:04	CH	EET MID

Client Sample ID: BH - 56 (3')

Lab Sample ID: 890-7468-10
Matrix: Solid
Date Collected: 12/10/24 08:45
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 22:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 22:02	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 17:09	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 57 (3')

Lab Sample ID: 890-7468-11
Matrix: Solid
Date Collected: 12/10/24 09:00
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 17:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 22:31	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97923	12/16/24 09:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97950	12/16/24 17:15	CH	EET MID

Client Sample ID: BH - 58 (3')

Lab Sample ID: 890-7468-12
Matrix: Solid
Date Collected: 12/10/24 09:05
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 17:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 22:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 22:46	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 11:03	SMC	EET MID

Client Sample ID: BH - 60 (3')

Lab Sample ID: 890-7468-13
Matrix: Solid
Date Collected: 12/10/24 09:10
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 18:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 23:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 23:00	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 11:24	SMC	EET MID

Client Sample ID: BH - 61 (3')

Lab Sample ID: 890-7468-14
Matrix: Solid
Date Collected: 12/10/24 09:15
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 18:37	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 61 (3')

Lab Sample ID: 890-7468-14
Matrix: Solid
Date Collected: 12/10/24 09:15
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98161	12/17/24 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 23:16	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 11:32	SMC	EET MID

Client Sample ID: BH - 62 (3')

Lab Sample ID: 890-7468-15
Matrix: Solid
Date Collected: 12/10/24 09:20
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 18:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 23:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 23:30	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 11:39	SMC	EET MID

Client Sample ID: BH - 63 (3')

Lab Sample ID: 890-7468-16
Matrix: Solid
Date Collected: 12/10/24 09:25
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/17/24 23:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 23:45	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 11:46	SMC	EET MID

Client Sample ID: BH - 64 (3')

Lab Sample ID: 890-7468-17
Matrix: Solid
Date Collected: 12/10/24 09:30
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 19:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 00:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 00:00	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 64 (3')
Lab Sample ID: 890-7468-17

Date Collected: 12/10/24 09:30
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 12:07	SMC	EET MID

Client Sample ID: BH - 65 (3')
Lab Sample ID: 890-7468-18

Date Collected: 12/10/24 09:35
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 19:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 00:14	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 12:14	SMC	EET MID

Client Sample ID: BH - 66 (3')
Lab Sample ID: 890-7468-19

Date Collected: 12/10/24 09:40
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 20:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 20:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 00:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 00:30	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 12:22	SMC	EET MID

Client Sample ID: BH - 67 (3"0
Lab Sample ID: 890-7468-20

Date Collected: 12/10/24 09:45
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97926	12/16/24 09:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97909	12/16/24 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 20:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 00:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97911	12/16/24 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 00:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 12:29	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 68 (3')

Lab Sample ID: 890-7468-21
Matrix: Solid
Date Collected: 12/10/24 09:50
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 12:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 12:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 02:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 02:41	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 12:36	SMC	EET MID

Client Sample ID: BH - 69 (3')

Lab Sample ID: 890-7468-22
Matrix: Solid
Date Collected: 12/10/24 09:55
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 12:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 03:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 03:27	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 12:43	SMC	EET MID

Client Sample ID: BH - 70 (3')

Lab Sample ID: 890-7468-23
Matrix: Solid
Date Collected: 12/10/24 10:00
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 03:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 03:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 13:04	SMC	EET MID

Client Sample ID: BH - 71 (3')

Lab Sample ID: 890-7468-24
Matrix: Solid
Date Collected: 12/10/24 10:05
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 13:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 13:12	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 71 (3')

Lab Sample ID: 890-7468-24

Date Collected: 12/10/24 10:05
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98161	12/18/24 03:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 03:56	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 13:11	SMC	EET MID

Client Sample ID: BH - 72 (3')

Lab Sample ID: 890-7468-25

Date Collected: 12/10/24 10:10
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 04:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 04:11	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 13:33	SMC	EET MID

Client Sample ID: BH - 73 (3')

Lab Sample ID: 890-7468-26

Date Collected: 12/10/24 10:15
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 13:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 13:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 04:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 04:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 13:40	SMC	EET MID

Client Sample ID: BH - 74 (3')

Lab Sample ID: 890-7468-27

Date Collected: 12/10/24 10:20
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 04:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 04:40	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: BH - 74 (3')

Lab Sample ID: 890-7468-27
Matrix: Solid
Date Collected: 12/10/24 10:20
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 13:47	SMC	EET MID

Client Sample ID: BH - 75 (3')

Lab Sample ID: 890-7468-28
Matrix: Solid
Date Collected: 12/10/24 10:25
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 14:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 14:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 04:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 04:55	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 13:54	SMC	EET MID

Client Sample ID: BH - 76 (3')

Lab Sample ID: 890-7468-29
Matrix: Solid
Date Collected: 12/10/24 10:30
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 14:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 05:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 05:09	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 14:01	SMC	EET MID

Client Sample ID: BH - 77 (3')

Lab Sample ID: 890-7468-30
Matrix: Solid
Date Collected: 12/10/24 10:35
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 15:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 05:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 05:23	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 14:08	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Client Sample ID: SW - 31

Date Collected: 12/10/24 10:40
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7468-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 16:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 16:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 05:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 05:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97924	12/16/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97952	12/18/24 14:15	SMC	EET MID

Client Sample ID: SW - 32

Date Collected: 12/10/24 10:45
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7468-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98021	12/16/24 17:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			98161	12/18/24 06:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 06:07	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 18:03	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7468-1
SDG: 212C - MD - 0096

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7468-1	BH - 37 (4')	Solid	12/10/24 08:00	12/13/24 08:00
890-7468-2	BH - 38 (4')	Solid	12/10/24 08:05	12/13/24 08:00
890-7468-3	BH - 43 (4')	Solid	12/10/24 08:10	12/13/24 08:00
890-7468-4	BH - 44 (4')	Solid	12/10/24 08:15	12/13/24 08:00
890-7468-5	BH - 45 (4')	Solid	12/10/24 08:20	12/13/24 08:00
890-7468-6	BH - 52 (3')	Solid	12/10/24 08:25	12/13/24 08:00
890-7468-7	BH - 53 (3')	Solid	12/10/24 08:30	12/13/24 08:00
890-7468-8	BH - 54 (3')	Solid	12/10/24 08:35	12/13/24 08:00
890-7468-9	BH - 55 (3')	Solid	12/10/24 08:40	12/13/24 08:00
890-7468-10	BH - 56 (3')	Solid	12/10/24 08:45	12/13/24 08:00
890-7468-11	BH - 57 (3')	Solid	12/10/24 09:00	12/13/24 08:00
890-7468-12	BH - 58 (3')	Solid	12/10/24 09:05	12/13/24 08:00
890-7468-13	BH - 60 (3')	Solid	12/10/24 09:10	12/13/24 08:00
890-7468-14	BH - 61 (3')	Solid	12/10/24 09:15	12/13/24 08:00
890-7468-15	BH - 62 (3')	Solid	12/10/24 09:20	12/13/24 08:00
890-7468-16	BH - 63 (3')	Solid	12/10/24 09:25	12/13/24 08:00
890-7468-17	BH - 64 (3')	Solid	12/10/24 09:30	12/13/24 08:00
890-7468-18	BH - 65 (3')	Solid	12/10/24 09:35	12/13/24 08:00
890-7468-19	BH - 66 (3')	Solid	12/10/24 09:40	12/13/24 08:00
890-7468-20	BH - 67 (3"0	Solid	12/10/24 09:45	12/13/24 08:00
890-7468-21	BH - 68 (3')	Solid	12/10/24 09:50	12/13/24 08:00
890-7468-22	BH - 69 (3')	Solid	12/10/24 09:55	12/13/24 08:00
890-7468-23	BH - 70 (3')	Solid	12/10/24 10:00	12/13/24 08:00
890-7468-24	BH - 71 (3')	Solid	12/10/24 10:05	12/13/24 08:00
890-7468-25	BH - 72 (3')	Solid	12/10/24 10:10	12/13/24 08:00
890-7468-26	BH - 73 (3')	Solid	12/10/24 10:15	12/13/24 08:00
890-7468-27	BH - 74 (3')	Solid	12/10/24 10:20	12/13/24 08:00
890-7468-28	BH - 75 (3')	Solid	12/10/24 10:25	12/13/24 08:00
890-7468-29	BH - 76 (3')	Solid	12/10/24 10:30	12/13/24 08:00
890-7468-30	BH - 77 (3')	Solid	12/10/24 10:35	12/13/24 08:00
890-7468-31	SW - 31	Solid	12/10/24 10:40	12/13/24 08:00
890-7468-32	SW - 32	Solid	12/10/24 10:45	12/13/24 08:00

Page 414 of 1592

Analysis Request of Chain of Custody Record

Page 1 of 4

Tetra Tech, Inc.

901 W Wall Street, St
Midland, Texas 797
Tel (432) 682-45
Fax (432) 682-39

890-7468 Chain of Custody

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	BTEX 8260B	Hold
	BH-37 (4')	12/10/2024	8:00		X			X			X		X												X				
	BH-38 (4')	12/10/2024	8:05		X			X			X		X												X				
	BH-43 (4')	12/10/2024	8:10		X			X			X		X												X				
	BH-44 (4')	12/10/2024	8:15		X			X			X		X												X				
	BH-45 (3')	12/10/2024	8:20		X			X			X		X												X				
	BH-52 (3')	12/10/2024	8:25		X			X			X		X												X				
	BH-53 (3')	12/10/2024	8:30		X			X			X		X												X				
	BH-54 (3')	12/10/2024	8:35		X			X			X		X												X				
	BH-55 (3')	12/10/2024	8:40		X			X			X		X												X				
	BH-56 (3')	12/10/2024	8:45		X			X			X		X												X				

Relinquished by: Date: 12-13-24 Time: 0600 — Received by: Date: 12/13 Time: 8a

Relinquished by: Date: Time: — Received by: Date: Time:

Relinquished by: Date: Time: — Received by: Date: Time:

LAB USE ONLY

Sample Temperature
Tuna
-02
1.8
1.6

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Hold
Page 65 of 70

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 415 of 1592

Analysis Request of Chain of Custody Record

Page 2 of 4

12/13/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-57 (3')	12/10/2024	9:00		X			X			X		X												X				
	BH-58 (3')	12/10/2024	9:05		X			X			X		X												X				
	BH-60 (3')	12/10/2024	9:10		X			X			X		X												X				
	BH-61 (3')	12/10/2024	9:15		X			X			X		X												X				
	BH-62 (3')	12/10/2024	9:20		X			X			X		X												X				
	BH-63 (3')	12/10/2024	9:25		X			X			X		X												X				
	BH-64 (3')	12/10/2024	9:30		X			X			X		X												X				
	BH-65 (3')	12/10/2024	9:35		X			X			X		X												X				
	BH-66 (3')	12/10/2024	9:40		X			X			X		X												X				
	BH-67 (3')	12/10/2024	9:45		X			X			X		X												X				

Hold

Page 66 of 70

Relinquished by:	Date: 12-13-24	Time: 0800	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/13 Time: 8a

LAB USE ONLY

Sample Temperature
Tmeter
-0.2
1.8
1.6

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 416 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	BH-68 (3')	12/10/2024	9:50		X			X					X		X													X								
	BH-69 (3')	12/10/2024	9:55		X			X					X		X													X								
	BH-70 (3')	12/10/2024	10:00		X			X					X		X													X								
	BH-71 (3')	12/10/2024	10:05		X			X					X		X													X								
	BH-72 (3')	12/10/2024	10:10		X			X					X		X													X								
	BH-73 (3')	12/10/2024	10:15		X			X					X		X													X								
	BH-74 (3')	12/10/2024	10:20		X			X					X		X													X								
	BH-75 (3')	12/10/2024	10:25		X			X					X		X													X								
	BH-76 (3')	12/10/2024	10:30		X			X					X		X													X								
	BH-77 (3')	12/10/2024	10:35		X			X					X		X													X								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	12-13-24	0800	[signature]	12/13	8a
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature
TNMC07
-0.2
1.8
1.6

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM
Page 67 of 70
12/18/2024

Page 417 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	SW-31	12/10/2024	10:40		X			X			X		X												X				
	SW-32	12/10/2024	10:45		X			X			X		X												X				

Relinquished by: Gary Allen	Date: 12-13-24	Time: 0800	Received by: [signature] 12/13 8:0
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
TNMCC
-0.2
1-8
1-6

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 68 of 70

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7468-1
SDG Number: 212C - MD - 0096

Login Number: 7468
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7468-1
SDG Number: 212C - MD - 0096

Login Number: 7468
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/16/24 08:19 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/18/2024 4:24:13 PM

JOB DESCRIPTION

Iceman SWD

JOB NUMBER

890-7469-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

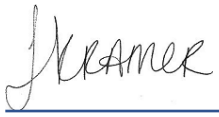
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/18/2024 4:24:13 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7469-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 19
QC Sample Results 21
QC Association Summary 30
Lab Chronicle 35
Certification Summary 40
Method Summary 41
Sample Summary 42
Chain of Custody 43
Receipt Checklists 45

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7469-1
Project/Site: Iceman SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7469-1

Job ID: 890-7469-1 Eurofins Carlsbad

Job Narrative
890-7469-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/13/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97913 and analytical batch 880-98052 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-97913 and analytical batch 880-98052 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-98 (4) (890-7469-11) and BH-99 (4) (890-7469-12). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97912 and analytical batch 880-98056 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-7468-A-21-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-98114/2-A) and (LCSD 880-98114/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) for preparation batch 880-98114 and analytical batch 880-98179 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. These analytes were biased high in the LCS and were within limits for the LCSD (laboratory control sample duplicate); therefore, the data have been reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98114 and analytical batch 880-98179 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7469-1

Job ID: 890-7469-1 (Continued)

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: SW-6

Lab Sample ID: 890-7469-1
Matrix: Solid
Date Collected: 12/12/24 08:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 17:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 17:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 17:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 17:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 17:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/16/24 10:00*	*12/16/24 17:21*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/16/24 10:00*	*12/16/24 17:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 06:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:22	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:22*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**375**		10.1		mg/Kg			12/16/24 18:20	1

Client Sample ID: SW-8

Lab Sample ID: 890-7469-2
Matrix: Solid
Date Collected: 12/12/24 08:05
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 17:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:00	12/16/24 17:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:00	12/16/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/16/24 10:00*	*12/16/24 17:41*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/16/24 10:00*	*12/16/24 17:41*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: SW-8

Lab Sample ID: 890-7469-2
Matrix: Solid
Date Collected: 12/12/24 08:05
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 17:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 06:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:37	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:37*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**410**		10.1		mg/Kg			12/16/24 18:26	1

Client Sample ID: SW-11

Lab Sample ID: 890-7469-3
Matrix: Solid
Date Collected: 12/12/24 08:10
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 18:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 18:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/16/24 10:00*	*12/16/24 18:02*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/16/24 10:00*	*12/16/24 18:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/16/24 18:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/18/24 06:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 06:51	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: SW-11

Lab Sample ID: 890-7469-3
Matrix: Solid
Date Collected: 12/12/24 08:10
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 06:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 06:51	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:29	12/18/24 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:51*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/16/24 08:29*	*12/18/24 06:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**392**		10.0		mg/Kg			12/16/24 18:32	1

Client Sample ID: SW-12

Lab Sample ID: 890-7469-4
Matrix: Solid
Date Collected: 12/12/24 08:15
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 18:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 18:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 18:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 18:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 18:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*12/16/24 10:00*	*12/16/24 18:22*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/16/24 10:00*	*12/16/24 18:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 18:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 07:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 07:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 07:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 07:05	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/16/24 08:29*	*12/18/24 07:05*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/16/24 08:29*	*12/18/24 07:05*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: SW-12

Lab Sample ID: 890-7469-4
Matrix: Solid
Date Collected: 12/12/24 08:15
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		9.94		mg/Kg			12/16/24 18:38	1

Client Sample ID: BH-108 (3)

Lab Sample ID: 890-7469-5
Matrix: Solid
Date Collected: 12/12/24 08:20
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 18:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:00	12/16/24 18:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/16/24 10:00*	*12/16/24 18:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/16/24 10:00*	*12/16/24 18:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 18:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/17/24 21:15	12/18/24 12:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		12/17/24 21:15	12/18/24 12:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/17/24 21:15	12/18/24 12:25	1
Total TPH	<49.9	U	49.9		mg/Kg		12/17/24 21:15	12/18/24 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/17/24 21:15*	*12/18/24 12:25*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/17/24 21:15*	*12/18/24 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	816		9.94		mg/Kg			12/16/24 18:56	1

Client Sample ID: BH-110 (3)

Lab Sample ID: 890-7469-6
Matrix: Solid
Date Collected: 12/12/24 08:25
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/16/24 10:00	12/16/24 19:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/16/24 10:00	12/16/24 19:03	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-110 (3)

Lab Sample ID: 890-7469-6
Matrix: Solid
Date Collected: 12/12/24 08:25
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		12/16/24 10:00	12/16/24 19:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/16/24 10:00	12/16/24 19:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/16/24 10:00	12/16/24 19:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/16/24 10:00	12/16/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/16/24 10:00*	*12/16/24 19:03*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/16/24 10:00*	*12/16/24 19:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/16/24 19:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 14:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		12/17/24 21:15	12/18/24 14:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/17/24 21:15	12/18/24 14:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/17/24 21:15	12/18/24 14:12	1
Total TPH	<50.0	U	50.0		mg/Kg		12/17/24 21:15	12/18/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/17/24 21:15*	*12/18/24 14:12*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/17/24 21:15*	*12/18/24 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		9.94		mg/Kg			12/16/24 19:02	1

Client Sample ID: BH-111 (3)

Lab Sample ID: 890-7469-7
Matrix: Solid
Date Collected: 12/12/24 08:30
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 19:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 19:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 19:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 19:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:00	12/16/24 19:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:00	12/16/24 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/16/24 10:00*	*12/16/24 19:24*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/16/24 10:00*	*12/16/24 19:24*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-111 (3)

Lab Sample ID: 890-7469-7
Matrix: Solid
Date Collected: 12/12/24 08:30
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 19:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/18/24 14:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		12/17/24 21:15	12/18/24 14:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/17/24 21:15	12/18/24 14:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/17/24 21:15	12/18/24 14:26	1
Total TPH	<49.7	U	49.7		mg/Kg		12/17/24 21:15	12/18/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/17/24 21:15*	*12/18/24 14:26*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/17/24 21:15*	*12/18/24 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**413**		9.96		mg/Kg			12/16/24 19:07	1

Client Sample ID: BH-112 (3)

Lab Sample ID: 890-7469-8
Matrix: Solid
Date Collected: 12/12/24 08:35
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 19:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 19:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 19:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 19:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:00	12/16/24 19:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:00	12/16/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/16/24 10:00*	*12/16/24 19:44*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/16/24 10:00*	*12/16/24 19:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 19:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 14:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		12/17/24 21:15	12/18/24 14:42	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-112 (3)

Lab Sample ID: 890-7469-8
Matrix: Solid
Date Collected: 12/12/24 08:35
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/17/24 21:15	12/18/24 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/17/24 21:15	12/18/24 14:42	1
Total TPH	<49.9	U	49.9		mg/Kg		12/17/24 21:15	12/18/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/17/24 21:15*	*12/18/24 14:42*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/17/24 21:15*	*12/18/24 14:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**263**		9.94		mg/Kg			12/16/24 19:13	1

Client Sample ID: BH-113 (3)

Lab Sample ID: 890-7469-9
Matrix: Solid
Date Collected: 12/12/24 08:40
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:04	12/16/24 12:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:04	12/16/24 12:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:04	12/16/24 12:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:04	12/16/24 12:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:04	12/16/24 12:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:04	12/16/24 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 10:04*	*12/16/24 12:28*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 10:04*	*12/16/24 12:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 12:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 19:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 19:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/16/24 08:33	12/17/24 19:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 19:19	1
Total TPH	<50.0	U F1	50.0		mg/Kg		12/16/24 08:33	12/17/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/16/24 08:33*	*12/17/24 19:19*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/16/24 08:33*	*12/17/24 19:19*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-113 (3)

Lab Sample ID: 890-7469-9
Matrix: Solid
Date Collected: 12/12/24 08:40
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	766		10.1		mg/Kg			12/16/24 19:19	1

Client Sample ID: BH-97 (4)

Lab Sample ID: 890-7469-10
Matrix: Solid
Date Collected: 12/12/24 08:45
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:04	12/16/24 12:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:04	12/16/24 12:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 10:04*	*12/16/24 12:48*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/16/24 10:04*	*12/16/24 12:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 12:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/17/24 20:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 20:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 20:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 20:04	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/16/24 08:33*	*12/17/24 20:04*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/16/24 08:33*	*12/17/24 20:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	324		10.1		mg/Kg			12/16/24 19:25	1

Client Sample ID: BH-98 (4)

Lab Sample ID: 890-7469-11
Matrix: Solid
Date Collected: 12/12/24 09:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 13:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 13:09	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-98 (4)

Lab Sample ID: 890-7469-11
Matrix: Solid
Date Collected: 12/12/24 09:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 13:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:04	12/16/24 13:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:04	12/16/24 13:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/16/24 10:04*	*12/16/24 13:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/16/24 10:04*	*12/16/24 13:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 13:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 20:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 20:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 20:18	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/16/24 08:33*	*12/17/24 20:18*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*12/16/24 08:33*	*12/17/24 20:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**672**		10.1		mg/Kg			12/16/24 19:43	1

Client Sample ID: BH-99 (4)

Lab Sample ID: 890-7469-12
Matrix: Solid
Date Collected: 12/12/24 09:05
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 13:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 13:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 13:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:04	12/16/24 13:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:04	12/16/24 13:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 10:04*	*12/16/24 13:29*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/16/24 10:04*	*12/16/24 13:29*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-99 (4)

Lab Sample ID: 890-7469-12

Date Collected: 12/12/24 09:05
Matrix: Solid
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 13:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 20:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:34	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/16/24 08:33*	*12/17/24 20:34*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*12/16/24 08:33*	*12/17/24 20:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**954**		9.92		mg/Kg			12/16/24 19:49	1

Client Sample ID: BH-59 (4)

Lab Sample ID: 890-7469-13

Date Collected: 12/12/24 09:10
Matrix: Solid
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 13:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 13:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 13:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:04	12/16/24 13:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:04	12/16/24 13:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 10:04*	*12/16/24 13:50*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/16/24 10:04*	*12/16/24 13:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 13:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 20:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-59 (4)

Lab Sample ID: 890-7469-13
Matrix: Solid
Date Collected: 12/12/24 09:10
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:48	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/16/24 08:33*	*12/17/24 20:48*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/16/24 08:33*	*12/17/24 20:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3450**		49.9		mg/Kg			12/16/24 20:07	5

Client Sample ID: BH-78 (4)

Lab Sample ID: 890-7469-14
Matrix: Solid
Date Collected: 12/12/24 09:15
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 14:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 14:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 14:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:04	12/16/24 14:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:04	12/16/24 14:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:04	12/16/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/16/24 10:04*	*12/16/24 14:10*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/16/24 10:04*	*12/16/24 14:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 14:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/17/24 21:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:04	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:04*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:04*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-78 (4)

Lab Sample ID: 890-7469-14
Matrix: Solid
Date Collected: 12/12/24 09:15
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		49.8		mg/Kg			12/16/24 20:12	5

Client Sample ID: BH-79 (4)

Lab Sample ID: 890-7469-15
Matrix: Solid
Date Collected: 12/12/24 09:20
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 14:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 14:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 14:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:04	12/16/24 14:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:04	12/16/24 14:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:04	12/16/24 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 10:04*	*12/16/24 14:31*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/16/24 10:04*	*12/16/24 14:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 14:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/17/24 21:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:18	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:18*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1520		49.5		mg/Kg			12/16/24 20:18	5

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7468-A-21-E MS	Matrix Spike	96	105
890-7468-A-21-F MSD	Matrix Spike Duplicate	101	101
890-7469-1	SW-6	87	97
890-7469-2	SW-8	87	95
890-7469-3	SW-11	87	95
890-7469-4	SW-12	84	93
890-7469-5	BH-108 (3)	86	94
890-7469-6	BH-110 (3)	88	95
890-7469-7	BH-111 (3)	87	94
890-7469-8	BH-112 (3)	85	95
890-7469-9	BH-113 (3)	98	98
890-7469-9 MS	BH-113 (3)	96	100
890-7469-9 MSD	BH-113 (3)	102	100
890-7469-10	BH-97 (4)	98	99
890-7469-11	BH-98 (4)	97	97
890-7469-12	BH-99 (4)	98	99
890-7469-13	BH-59 (4)	98	100
890-7469-14	BH-78 (4)	99	100
890-7469-15	BH-79 (4)	98	98
LCS 880-97927/1-A	Lab Control Sample	106	106
LCS 880-97928/1-A	Lab Control Sample	98	98
LCSD 880-97927/2-A	Lab Control Sample Dup	88	107
LCSD 880-97928/2-A	Lab Control Sample Dup	95	100
MB 880-97927/5-A	Method Blank	77	90
MB 880-97928/5-A	Method Blank	95	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7468-A-21-B MS	Matrix Spike	78	70
890-7468-A-21-C MSD	Matrix Spike Duplicate	77	69 S1-
890-7469-1	SW-6	72	73
890-7469-2	SW-8	74	75
890-7469-3	SW-11	71	73
890-7469-4	SW-12	72	74
890-7469-5	BH-108 (3)	86	76
890-7469-5 MS	BH-108 (3)	97	83
890-7469-5 MSD	BH-108 (3)	97	83
890-7469-6	BH-110 (3)	87	74
890-7469-7	BH-111 (3)	81	71
890-7469-8	BH-112 (3)	84	73
890-7469-9	BH-113 (3)	81	71
890-7469-9 MS	BH-113 (3)	87	70

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7469-1
Project/Site: Iceman SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-7469-9 MSD	BH-113 (3)	88	70								
890-7469-10	BH-97 (4)	81	72								
890-7469-11	BH-98 (4)	78	69 S1-								
890-7469-12	BH-99 (4)	79	69 S1-								
890-7469-13	BH-59 (4)	90	79								
890-7469-14	BH-78 (4)	81	70								
890-7469-15	BH-79 (4)	82	71								
LCS 880-97912/2-A	Lab Control Sample	110	100								
LCS 880-97913/2-A	Lab Control Sample	125	100								
LCS 880-98114/2-A	Lab Control Sample	141 S1+	115								
LCSD 880-97912/3-A	Lab Control Sample Dup	122	110								
LCSD 880-97913/3-A	Lab Control Sample Dup	116	93								
LCSD 880-98114/3-A	Lab Control Sample Dup	131 S1+	104								
MB 880-97912/1-A	Method Blank	86	89								
MB 880-97913/1-A	Method Blank	86	75								
MB 880-98114/1-A	Method Blank	107	94								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97927/5-A
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 10:00	12/16/24 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:00	12/16/24 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*12/16/24 10:00*	*12/16/24 11:49*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/16/24 10:00*	*12/16/24 11:49*	*1*

Lab Sample ID: LCS 880-97927/1-A
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09498		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1192		mg/Kg		119	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2318		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1178		mg/Kg		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-97927/2-A
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09035		mg/Kg		90	70 - 130	5	35
Ethylbenzene	0.100	0.08855		mg/Kg		89	70 - 130	29	35
Toluene	0.100	0.09478		mg/Kg		95	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	27	35
o-Xylene	0.100	0.08891		mg/Kg		89	70 - 130	28	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-7468-A-21-E MS
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08523		mg/Kg		85	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09003		mg/Kg		90	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7468-A-21-E MS
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.100	0.09218		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1749		mg/Kg		87	70 - 130
o-Xylene	<0.00200	U	0.100	0.08878		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-7468-A-21-F MSD
Matrix: Solid
Analysis Batch: 97910

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08083		mg/Kg		81	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.09632		mg/Kg		96	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.08558		mg/Kg		86	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1862		mg/Kg		93	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.09382		mg/Kg		94	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-97928/5-A
Matrix: Solid
Analysis Batch: 97907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 10:04	12/16/24 12:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 10:04	12/16/24 12:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:04	12/16/24 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/16/24 10:04*	*12/16/24 12:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/16/24 10:04*	*12/16/24 12:06*	*1*

Lab Sample ID: LCS 880-97928/1-A
Matrix: Solid
Analysis Batch: 97907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09053		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-97928/1-A
Matrix: Solid
Analysis Batch: 97907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97928

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1121		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-97928/2-A
Matrix: Solid
Analysis Batch: 97907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97928

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09629		mg/Kg		96	70 - 130	6	35
Ethylbenzene			0.100	0.1070		mg/Kg		107	70 - 130	4	35
Toluene			0.100	0.1053		mg/Kg		105	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2033		mg/Kg		102	70 - 130	3	35
o-Xylene			0.100	0.1170		mg/Kg		117	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7469-9 MS
Matrix: Solid
Analysis Batch: 97907

Client Sample ID: BH-113 (3)
Prep Type: Total/NA
Prep Batch: 97928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.09091		mg/Kg		91	70 - 130		
Ethylbenzene	<0.00202	U	0.100	0.09864		mg/Kg		99	70 - 130		
Toluene	<0.00202	U	0.100	0.09862		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1868		mg/Kg		93	70 - 130		
o-Xylene	<0.00202	U	0.100	0.1056		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7469-9 MSD
Matrix: Solid
Analysis Batch: 97907

Client Sample ID: BH-113 (3)
Prep Type: Total/NA
Prep Batch: 97928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09149		mg/Kg		91	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.100	0.1020		mg/Kg		102	70 - 130	3	35
Toluene	<0.00202	U	0.100	0.1007		mg/Kg		101	70 - 130	2	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1949		mg/Kg		97	70 - 130	4	35
o-Xylene	<0.00202	U	0.100	0.1110		mg/Kg		111	70 - 130	5	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7469-9 MSD
Matrix: Solid
Analysis Batch: 97907

Client Sample ID: BH-113 (3)
Prep Type: Total/NA
Prep Batch: 97928

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-97912/1-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:29	12/18/24 01:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	12/16/24 08:29	12/18/24 01:44	1
o-Terphenyl	89		70 - 130	12/16/24 08:29	12/18/24 01:44	1

Lab Sample ID: LCS 880-97912/2-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97912

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1065		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1029		mg/Kg		103	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-97912/3-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97912

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1136		mg/Kg		114	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1094		mg/Kg		109	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7468-A-21-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98056 — **Prep Batch: 97912**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	711.9		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	640.7	F1	mg/Kg		64	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Lab Sample ID: 890-7468-A-21-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98056 — **Prep Batch: 97912**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	701.9		mg/Kg		70	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	618.0	F1	mg/Kg		62	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-97913/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98052 — **Prep Batch: 97913**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/16/24 08:33*	*12/17/24 18:36*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:33*	*12/17/24 18:36*	*1*

Lab Sample ID: LCS 880-97913/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98052 — **Prep Batch: 97913**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1242		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	1000	959.5		mg/Kg		96	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-97913/2-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97913

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-97913/3-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97913

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1174		mg/Kg		117	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	896.9		mg/Kg		90	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-7469-9 MS
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: BH-113 (3)
Prep Type: Total/NA
Prep Batch: 97913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	835.6		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	615.6	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	70		70 - 130

Lab Sample ID: 890-7469-9 MSD
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: BH-113 (3)
Prep Type: Total/NA
Prep Batch: 97913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	772.8		mg/Kg		78	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	609.9	F1	mg/Kg		61	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	70		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-98114/1-A
Matrix: Solid
Analysis Batch: 98179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/17/24 21:15	12/18/24 10:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/17/24 21:15	12/18/24 10:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/17/24 21:15	12/18/24 10:49	1
Total TPH	<50.0	U	50.0		mg/Kg		12/17/24 21:15	12/18/24 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*12/17/24 21:15*	*12/18/24 10:49*	*1*
o-Terphenyl	*94*		*70 - 130*	*12/17/24 21:15*	*12/18/24 10:49*	*1*

Lab Sample ID: LCS 880-98114/2-A
Matrix: Solid
Analysis Batch: 98179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98114

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1358	*+	mg/Kg		136	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1130		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*141*	*S1+*	*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: LCSD 880-98114/3-A
Matrix: Solid
Analysis Batch: 98179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1298		mg/Kg		130	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	976.8		mg/Kg		98	70 - 130	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: 890-7469-5 MS
Matrix: Solid
Analysis Batch: 98179

Client Sample ID: BH-108 (3)
Prep Type: Total/NA
Prep Batch: 98114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	819.6		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	649.0	F1	mg/Kg		65	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7469-5 MS
Matrix: Solid
Analysis Batch: 98179

Client Sample ID: BH-108 (3)
Prep Type: Total/NA
Prep Batch: 98114

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-7469-5 MSD
Matrix: Solid
Analysis Batch: 98179

Client Sample ID: BH-108 (3)
Prep Type: Total/NA
Prep Batch: 98114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	821.3		mg/Kg		82	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	645.1	F1	mg/Kg		65	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	83		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97925/1-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/16/24 17:45	1

Lab Sample ID: LCS 880-97925/2-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-97925/3-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7469-10 MS
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: BH-97 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	324		253	567.3		mg/Kg		96	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7469-10 MSD
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: BH-97 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	324		253	567.8		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

GC VOA

Analysis Batch: 97907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-9	BH-113 (3)	Total/NA	Solid	8021B	97928
890-7469-10	BH-97 (4)	Total/NA	Solid	8021B	97928
890-7469-11	BH-98 (4)	Total/NA	Solid	8021B	97928
890-7469-12	BH-99 (4)	Total/NA	Solid	8021B	97928
890-7469-13	BH-59 (4)	Total/NA	Solid	8021B	97928
890-7469-14	BH-78 (4)	Total/NA	Solid	8021B	97928
890-7469-15	BH-79 (4)	Total/NA	Solid	8021B	97928
MB 880-97928/5-A	Method Blank	Total/NA	Solid	8021B	97928
LCS 880-97928/1-A	Lab Control Sample	Total/NA	Solid	8021B	97928
LCSD 880-97928/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97928
890-7469-9 MS	BH-113 (3)	Total/NA	Solid	8021B	97928
890-7469-9 MSD	BH-113 (3)	Total/NA	Solid	8021B	97928

Analysis Batch: 97910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Total/NA	Solid	8021B	97927
890-7469-2	SW-8	Total/NA	Solid	8021B	97927
890-7469-3	SW-11	Total/NA	Solid	8021B	97927
890-7469-4	SW-12	Total/NA	Solid	8021B	97927
890-7469-5	BH-108 (3)	Total/NA	Solid	8021B	97927
890-7469-6	BH-110 (3)	Total/NA	Solid	8021B	97927
890-7469-7	BH-111 (3)	Total/NA	Solid	8021B	97927
890-7469-8	BH-112 (3)	Total/NA	Solid	8021B	97927
MB 880-97927/5-A	Method Blank	Total/NA	Solid	8021B	97927
LCS 880-97927/1-A	Lab Control Sample	Total/NA	Solid	8021B	97927
LCSD 880-97927/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97927
890-7468-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	97927
890-7468-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97927

Prep Batch: 97927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Total/NA	Solid	5035	
890-7469-2	SW-8	Total/NA	Solid	5035	
890-7469-3	SW-11	Total/NA	Solid	5035	
890-7469-4	SW-12	Total/NA	Solid	5035	
890-7469-5	BH-108 (3)	Total/NA	Solid	5035	
890-7469-6	BH-110 (3)	Total/NA	Solid	5035	
890-7469-7	BH-111 (3)	Total/NA	Solid	5035	
890-7469-8	BH-112 (3)	Total/NA	Solid	5035	
MB 880-97927/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97927/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97927/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7468-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
890-7468-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 97928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-9	BH-113 (3)	Total/NA	Solid	5035	
890-7469-10	BH-97 (4)	Total/NA	Solid	5035	
890-7469-11	BH-98 (4)	Total/NA	Solid	5035	
890-7469-12	BH-99 (4)	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

GC VOA (Continued)

Prep Batch: 97928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-13	BH-59 (4)	Total/NA	Solid	5035	
890-7469-14	BH-78 (4)	Total/NA	Solid	5035	
890-7469-15	BH-79 (4)	Total/NA	Solid	5035	
MB 880-97928/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97928/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97928/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7469-9 MS	BH-113 (3)	Total/NA	Solid	5035	
890-7469-9 MSD	BH-113 (3)	Total/NA	Solid	5035	

Analysis Batch: 97990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Total/NA	Solid	Total BTEX	
890-7469-2	SW-8	Total/NA	Solid	Total BTEX	
890-7469-3	SW-11	Total/NA	Solid	Total BTEX	
890-7469-4	SW-12	Total/NA	Solid	Total BTEX	
890-7469-5	BH-108 (3)	Total/NA	Solid	Total BTEX	
890-7469-6	BH-110 (3)	Total/NA	Solid	Total BTEX	
890-7469-7	BH-111 (3)	Total/NA	Solid	Total BTEX	
890-7469-8	BH-112 (3)	Total/NA	Solid	Total BTEX	
890-7469-9	BH-113 (3)	Total/NA	Solid	Total BTEX	
890-7469-10	BH-97 (4)	Total/NA	Solid	Total BTEX	
890-7469-11	BH-98 (4)	Total/NA	Solid	Total BTEX	
890-7469-12	BH-99 (4)	Total/NA	Solid	Total BTEX	
890-7469-13	BH-59 (4)	Total/NA	Solid	Total BTEX	
890-7469-14	BH-78 (4)	Total/NA	Solid	Total BTEX	
890-7469-15	BH-79 (4)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Total/NA	Solid	8015NM Prep	
890-7469-2	SW-8	Total/NA	Solid	8015NM Prep	
890-7469-3	SW-11	Total/NA	Solid	8015NM Prep	
890-7469-4	SW-12	Total/NA	Solid	8015NM Prep	
MB 880-97912/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97912/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7468-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7468-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 97913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-9	BH-113 (3)	Total/NA	Solid	8015NM Prep	
890-7469-10	BH-97 (4)	Total/NA	Solid	8015NM Prep	
890-7469-11	BH-98 (4)	Total/NA	Solid	8015NM Prep	
890-7469-12	BH-99 (4)	Total/NA	Solid	8015NM Prep	
890-7469-13	BH-59 (4)	Total/NA	Solid	8015NM Prep	
890-7469-14	BH-78 (4)	Total/NA	Solid	8015NM Prep	
890-7469-15	BH-79 (4)	Total/NA	Solid	8015NM Prep	
MB 880-97913/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

GC Semi VOA (Continued)

Prep Batch: 97913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-97913/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7469-9 MS	BH-113 (3)	Total/NA	Solid	8015NM Prep	
890-7469-9 MSD	BH-113 (3)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-9	BH-113 (3)	Total/NA	Solid	8015B NM	97913
890-7469-10	BH-97 (4)	Total/NA	Solid	8015B NM	97913
890-7469-11	BH-98 (4)	Total/NA	Solid	8015B NM	97913
890-7469-12	BH-99 (4)	Total/NA	Solid	8015B NM	97913
890-7469-13	BH-59 (4)	Total/NA	Solid	8015B NM	97913
890-7469-14	BH-78 (4)	Total/NA	Solid	8015B NM	97913
890-7469-15	BH-79 (4)	Total/NA	Solid	8015B NM	97913
MB 880-97913/1-A	Method Blank	Total/NA	Solid	8015B NM	97913
LCS 880-97913/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97913
LCSD 880-97913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97913
890-7469-9 MS	BH-113 (3)	Total/NA	Solid	8015B NM	97913
890-7469-9 MSD	BH-113 (3)	Total/NA	Solid	8015B NM	97913

Analysis Batch: 98056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Total/NA	Solid	8015B NM	97912
890-7469-2	SW-8	Total/NA	Solid	8015B NM	97912
890-7469-3	SW-11	Total/NA	Solid	8015B NM	97912
890-7469-4	SW-12	Total/NA	Solid	8015B NM	97912
MB 880-97912/1-A	Method Blank	Total/NA	Solid	8015B NM	97912
LCS 880-97912/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97912
LCSD 880-97912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97912
890-7468-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97912
890-7468-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97912

Prep Batch: 98114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-5	BH-108 (3)	Total/NA	Solid	8015NM Prep	
890-7469-6	BH-110 (3)	Total/NA	Solid	8015NM Prep	
890-7469-7	BH-111 (3)	Total/NA	Solid	8015NM Prep	
890-7469-8	BH-112 (3)	Total/NA	Solid	8015NM Prep	
MB 880-98114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7469-5 MS	BH-108 (3)	Total/NA	Solid	8015NM Prep	
890-7469-5 MSD	BH-108 (3)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Total/NA	Solid	8015 NM	
890-7469-2	SW-8	Total/NA	Solid	8015 NM	
890-7469-3	SW-11	Total/NA	Solid	8015 NM	
890-7469-4	SW-12	Total/NA	Solid	8015 NM	
890-7469-5	BH-108 (3)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

GC Semi VOA (Continued)

Analysis Batch: 98154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-6	BH-110 (3)	Total/NA	Solid	8015 NM	
890-7469-7	BH-111 (3)	Total/NA	Solid	8015 NM	
890-7469-8	BH-112 (3)	Total/NA	Solid	8015 NM	
890-7469-9	BH-113 (3)	Total/NA	Solid	8015 NM	
890-7469-10	BH-97 (4)	Total/NA	Solid	8015 NM	
890-7469-11	BH-98 (4)	Total/NA	Solid	8015 NM	
890-7469-12	BH-99 (4)	Total/NA	Solid	8015 NM	
890-7469-13	BH-59 (4)	Total/NA	Solid	8015 NM	
890-7469-14	BH-78 (4)	Total/NA	Solid	8015 NM	
890-7469-15	BH-79 (4)	Total/NA	Solid	8015 NM	

Analysis Batch: 98179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-5	BH-108 (3)	Total/NA	Solid	8015B NM	98114
890-7469-6	BH-110 (3)	Total/NA	Solid	8015B NM	98114
890-7469-7	BH-111 (3)	Total/NA	Solid	8015B NM	98114
890-7469-8	BH-112 (3)	Total/NA	Solid	8015B NM	98114
MB 880-98114/1-A	Method Blank	Total/NA	Solid	8015B NM	98114
LCS 880-98114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98114
LCSD 880-98114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98114
890-7469-5 MS	BH-108 (3)	Total/NA	Solid	8015B NM	98114
890-7469-5 MSD	BH-108 (3)	Total/NA	Solid	8015B NM	98114

HPLC/IC

Leach Batch: 97925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Soluble	Solid	DI Leach	
890-7469-2	SW-8	Soluble	Solid	DI Leach	
890-7469-3	SW-11	Soluble	Solid	DI Leach	
890-7469-4	SW-12	Soluble	Solid	DI Leach	
890-7469-5	BH-108 (3)	Soluble	Solid	DI Leach	
890-7469-6	BH-110 (3)	Soluble	Solid	DI Leach	
890-7469-7	BH-111 (3)	Soluble	Solid	DI Leach	
890-7469-8	BH-112 (3)	Soluble	Solid	DI Leach	
890-7469-9	BH-113 (3)	Soluble	Solid	DI Leach	
890-7469-10	BH-97 (4)	Soluble	Solid	DI Leach	
890-7469-11	BH-98 (4)	Soluble	Solid	DI Leach	
890-7469-12	BH-99 (4)	Soluble	Solid	DI Leach	
890-7469-13	BH-59 (4)	Soluble	Solid	DI Leach	
890-7469-14	BH-78 (4)	Soluble	Solid	DI Leach	
890-7469-15	BH-79 (4)	Soluble	Solid	DI Leach	
MB 880-97925/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7469-10 MS	BH-97 (4)	Soluble	Solid	DI Leach	
890-7469-10 MSD	BH-97 (4)	Soluble	Solid	DI Leach	

Analysis Batch: 97958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-1	SW-6	Soluble	Solid	300.0	97925

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

HPLC/IC (Continued)

Analysis Batch: 97958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7469-2	SW-8	Soluble	Solid	300.0	97925
890-7469-3	SW-11	Soluble	Solid	300.0	97925
890-7469-4	SW-12	Soluble	Solid	300.0	97925
890-7469-5	BH-108 (3)	Soluble	Solid	300.0	97925
890-7469-6	BH-110 (3)	Soluble	Solid	300.0	97925
890-7469-7	BH-111 (3)	Soluble	Solid	300.0	97925
890-7469-8	BH-112 (3)	Soluble	Solid	300.0	97925
890-7469-9	BH-113 (3)	Soluble	Solid	300.0	97925
890-7469-10	BH-97 (4)	Soluble	Solid	300.0	97925
890-7469-11	BH-98 (4)	Soluble	Solid	300.0	97925
890-7469-12	BH-99 (4)	Soluble	Solid	300.0	97925
890-7469-13	BH-59 (4)	Soluble	Solid	300.0	97925
890-7469-14	BH-78 (4)	Soluble	Solid	300.0	97925
890-7469-15	BH-79 (4)	Soluble	Solid	300.0	97925
MB 880-97925/1-A	Method Blank	Soluble	Solid	300.0	97925
LCS 880-97925/2-A	Lab Control Sample	Soluble	Solid	300.0	97925
LCSD 880-97925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97925
890-7469-10 MS	BH-97 (4)	Soluble	Solid	300.0	97925
890-7469-10 MSD	BH-97 (4)	Soluble	Solid	300.0	97925

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: SW-6

Lab Sample ID: 890-7469-1
Matrix: Solid
Date Collected: 12/12/24 08:00
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/18/24 06:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 06:22	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 18:20	CH	EET MID

Client Sample ID: SW-8

Lab Sample ID: 890-7469-2
Matrix: Solid
Date Collected: 12/12/24 08:05
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 17:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/18/24 06:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 06:37	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 18:26	CH	EET MID

Client Sample ID: SW-11

Lab Sample ID: 890-7469-3
Matrix: Solid
Date Collected: 12/12/24 08:10
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/18/24 06:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 06:51	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 18:32	CH	EET MID

Client Sample ID: SW-12

Lab Sample ID: 890-7469-4
Matrix: Solid
Date Collected: 12/12/24 08:15
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 18:22	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7469-1
Project/Site: Iceman SWD

Client Sample ID: SW-12
Lab Sample ID: 890-7469-4
Date Collected: 12/12/24 08:15
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98154	12/18/24 07:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97912	12/16/24 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/18/24 07:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 18:38	CH	EET MID

Client Sample ID: BH-108 (3)
Lab Sample ID: 890-7469-5
Date Collected: 12/12/24 08:20
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 18:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/18/24 12:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98114	12/17/24 21:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98179	12/18/24 12:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 18:56	CH	EET MID

Client Sample ID: BH-110 (3)
Lab Sample ID: 890-7469-6
Date Collected: 12/12/24 08:25
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/18/24 14:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98114	12/17/24 21:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98179	12/18/24 14:12	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 19:02	CH	EET MID

Client Sample ID: BH-111 (3)
Lab Sample ID: 890-7469-7
Date Collected: 12/12/24 08:30
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 19:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/18/24 14:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98114	12/17/24 21:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98179	12/18/24 14:26	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Client Sample ID: BH-111 (3)

Lab Sample ID: 890-7469-7
Matrix: Solid
Date Collected: 12/12/24 08:30
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 19:07	CH	EET MID

Client Sample ID: BH-112 (3)

Lab Sample ID: 890-7469-8
Matrix: Solid
Date Collected: 12/12/24 08:35
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97927	12/16/24 10:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97910	12/16/24 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 19:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/18/24 14:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98114	12/17/24 21:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98179	12/18/24 14:42	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 19:13	CH	EET MID

Client Sample ID: BH-113 (3)

Lab Sample ID: 890-7469-9
Matrix: Solid
Date Collected: 12/12/24 08:40
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97928	12/16/24 10:04	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97907	12/16/24 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 12:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/17/24 19:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 19:19	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 19:19	CH	EET MID

Client Sample ID: BH-97 (4)

Lab Sample ID: 890-7469-10
Matrix: Solid
Date Collected: 12/12/24 08:45
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97928	12/16/24 10:04	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97907	12/16/24 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/17/24 20:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 20:04	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 19:25	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7469-1
Project/Site: Iceman SWD

Client Sample ID: BH-98 (4)
Lab Sample ID: 890-7469-11
Date Collected: 12/12/24 09:00
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97928	12/16/24 10:04	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97907	12/16/24 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/17/24 20:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 20:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 19:43	CH	EET MID

Client Sample ID: BH-99 (4)
Lab Sample ID: 890-7469-12
Date Collected: 12/12/24 09:05
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97928	12/16/24 10:04	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97907	12/16/24 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 13:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/17/24 20:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 20:34	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 19:49	CH	EET MID

Client Sample ID: BH-59 (4)
Lab Sample ID: 890-7469-13
Date Collected: 12/12/24 09:10
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97928	12/16/24 10:04	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97907	12/16/24 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 13:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/17/24 20:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 20:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97958	12/16/24 20:07	CH	EET MID

Client Sample ID: BH-78 (4)
Lab Sample ID: 890-7469-14
Date Collected: 12/12/24 09:15
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97928	12/16/24 10:04	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97907	12/16/24 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 14:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7469-1
Project/Site: Iceman SWD

Client Sample ID: BH-78 (4)
Lab Sample ID: 890-7469-14
Date Collected: 12/12/24 09:15
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98154	12/17/24 21:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 21:04	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97958	12/16/24 20:12	CH	EET MID

Client Sample ID: BH-79 (4)
Lab Sample ID: 890-7469-15
Date Collected: 12/12/24 09:20
Matrix: Solid
Date Received: 12/13/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97928	12/16/24 10:04	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97907	12/16/24 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97990	12/16/24 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			98154	12/17/24 21:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 21:18	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97958	12/16/24 20:18	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 890-7469-1
Project/Site: Iceman SWD

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7469-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7469-1	SW-6	Solid	12/12/24 08:00	12/13/24 08:00
890-7469-2	SW-8	Solid	12/12/24 08:05	12/13/24 08:00
890-7469-3	SW-11	Solid	12/12/24 08:10	12/13/24 08:00
890-7469-4	SW-12	Solid	12/12/24 08:15	12/13/24 08:00
890-7469-5	BH-108 (3)	Solid	12/12/24 08:20	12/13/24 08:00
890-7469-6	BH-110 (3)	Solid	12/12/24 08:25	12/13/24 08:00
890-7469-7	BH-111 (3)	Solid	12/12/24 08:30	12/13/24 08:00
890-7469-8	BH-112 (3)	Solid	12/12/24 08:35	12/13/24 08:00
890-7469-9	BH-113 (3)	Solid	12/12/24 08:40	12/13/24 08:00
890-7469-10	BH-97 (4)	Solid	12/12/24 08:45	12/13/24 08:00
890-7469-11	BH-98 (4)	Solid	12/12/24 09:00	12/13/24 08:00
890-7469-12	BH-99 (4)	Solid	12/12/24 09:05	12/13/24 08:00
890-7469-13	BH-59 (4)	Solid	12/12/24 09:10	12/13/24 08:00
890-7469-14	BH-78 (4)	Solid	12/12/24 09:15	12/13/24 08:00
890-7469-15	BH-79 (4)	Solid	12/12/24 09:20	12/13/24 08:00

Page 462 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7469 Chain of Custody

12/18/2024

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	BTEX 8260B	Hold
	SW-6	12/12/2024	8:00		X			X			X		X												X					
	SW-8	12/12/2024	8:05		X			X			X		X												X					
	SW-11	12/12/2024	8:10		X			X			X		X												X					
	SW-12	12/12/2024	8:15		X			X			X		X												X					
	BH-108 (3')	12/12/2024	8:20		X			X			X		X												X					
	BH-110 (3')	12/12/2024	8:25		X			X			X		X												X					
	BH-111 (3')	12/12/2024	8:30		X			X			X		X												X					
	BH-112 (3')	12/12/2024	8:35		X			X			X		X												X					
	BH-113 (3')	12/12/2024	8:40		X			X			X		X												X					
	BH-97 (4')	12/12/2024	8:45		X			X			X		X												X					

Page 43 of 46

Relinquished by:	Date: 12-13-24	Time: 0900	Received by: Date: 12/13 Time: 8a
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
Thermo
-0.2
1.8
1.6

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 463 of 1592

Analysis Request of Chain of Custody Record

12/18/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-98 (4')	12/12/2024	9:00		X				X				X		X												X							
	BH-99 (4')	12/12/2024	9:05		X				X				X		X												X							
	BH-59 (4')	12/12/2024	9:10		X				X				X		X												X							
	BH-78 (4')	12/12/2024	9:15		X				X				X		X												X							
	BH-79 (4')	12/12/2024	9:20		X				X				X		X												X							

Relinquished by:	Date: 12-13-24	Time: 0900	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/13 Time: 8a

Date: Time:

Date: Time:

LAB USE ONLY

Sample Temperature
Tunnel
-0.2
1.8
1.6

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 44 of 46

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7469-1

Login Number: 7469

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7469-1

Login Number: 7469
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/16/24 08:21 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/31/2024 3:51:56 PM

JOB DESCRIPTION

Iceman SWD
212C - MD - 03085

JOB NUMBER

890-7470-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

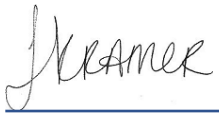
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/31/2024 3:51:56 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7470-1
SDG: 212C - MD - 03085

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 18
QC Sample Results 20
QC Association Summary 26
Lab Chronicle 31
Certification Summary 36
Method Summary 37
Sample Summary 38
Chain of Custody 39
Receipt Checklists 41

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7470-1

Job ID: 890-7470-1 Eurofins Carlsbad

Job Narrative
890-7470-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/13/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 82 (3') (890-7470-1), BH - 83 (3') (890-7470-2), BH - 84 (3') (890-7470-3), BH - 85 (3') (890-7470-4), BH - 86 (3') (890-7470-5), BH - 87 (3') (890-7470-6), BH - 88 (3') (890-7470-7), BH - 89 (3') (890-7470-8), BH - 90 (3') (890-7470-9), BH - 91 (3') (890-7470-10), BH - 92 (4') (890-7470-11), BH - 93 (4') (890-7470-12), BH - 94 (3') (890-7470-13), BH - 80 (4') (890-7470-14) and BH - 81 (4') (890-7470-15).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-97706 and analytical batch 880-97954 was outside the control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97706 and analytical batch 880-97954 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97913 and analytical batch 880-98052 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-97913 and analytical batch 880-98052 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH - 86 (3') (890-7470-5) and BH - 92 (4') (890-7470-11). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98016 and analytical batch 880-98063 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 82 (3')

Date Collected: 12/11/24 08:00
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 12:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 12:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 12:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 12:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 12:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/16/24 10:12*	*12/16/24 12:27*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 12:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 12:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 21:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 21:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 21:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 21:33	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:33*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.1**		10.0		mg/Kg			12/16/24 20:24	1

Client Sample ID: BH - 83 (3')

Date Collected: 12/11/24 08:05
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 12:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 12:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 12:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 12:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 12:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/16/24 10:12*	*12/16/24 12:48*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 12:48*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 83 (3')

Date Collected: 12/11/24 08:05
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 12:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/17/24 21:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 21:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 21:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 21:47	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:47*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/16/24 08:33*	*12/17/24 21:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		10.1		mg/Kg			12/16/24 20:30	1

Client Sample ID: BH - 84 (3')

Date Collected: 12/11/24 08:10
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 13:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 13:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 13:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:12	12/16/24 13:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:12	12/16/24 13:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/16/24 10:12*	*12/16/24 13:08*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 13:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 13:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 22:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 22:02	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 84 (3')

Lab Sample ID: 890-7470-3
Matrix: Solid
Date Collected: 12/11/24 08:10
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 22:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 22:02	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/16/24 08:33*	*12/17/24 22:02*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/16/24 08:33*	*12/17/24 22:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**		10.0		mg/Kg			12/16/24 20:36	1

Client Sample ID: BH - 85 (3')

Lab Sample ID: 890-7470-4
Matrix: Solid
Date Collected: 12/11/24 08:15
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 13:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 13:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 13:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 13:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 13:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/16/24 10:12*	*12/16/24 13:29*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 13:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 13:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 22:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 22:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 22:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 22:31	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/16/24 08:33*	*12/17/24 22:31*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/16/24 08:33*	*12/17/24 22:31*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 85 (3')
Date Collected: 12/11/24 08:15
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226		9.92		mg/Kg			12/16/24 20:42	1

Client Sample ID: BH - 86 (3')
Date Collected: 12/11/24 08:20
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 13:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 13:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/16/24 10:12*	*12/16/24 13:49*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 13:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 13:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/17/24 22:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 22:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 22:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 22:46	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/17/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/16/24 08:33*	*12/17/24 22:46*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*12/16/24 08:33*	*12/17/24 22:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	538		9.94		mg/Kg			12/17/24 18:37	1

Client Sample ID: BH - 87 (3')
Date Collected: 12/11/24 08:25
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 18:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 18:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 87 (3')

Date Collected: 12/11/24 08:25
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 18:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 10:12	12/16/24 18:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 10:12	12/16/24 18:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/16/24 10:12*	*12/16/24 18:48*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 18:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/16/24 18:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 23:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:00	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:00*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**749**	**F1**	9.96		mg/Kg			12/17/24 18:44	1

Client Sample ID: BH - 88 (3')

Date Collected: 12/11/24 08:30
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 14:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 14:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 14:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 14:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 14:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/16/24 10:12*	*12/16/24 14:30*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 14:30*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 88 (3')

Date Collected: 12/11/24 08:30
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 14:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/17/24 23:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 23:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 23:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 23:16	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/17/24 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:16*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**355**		10.1		mg/Kg			12/17/24 19:05	1

Client Sample ID: BH - 89 (3')

Date Collected: 12/11/24 08:35
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 14:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:12	12/16/24 14:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:12	12/16/24 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/16/24 10:12*	*12/16/24 14:51*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 14:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/16/24 14:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/17/24 23:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:30	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 89 (3')

Lab Sample ID: 890-7470-8
Matrix: Solid
Date Collected: 12/11/24 08:35
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:30	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:30*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**228**		10.1		mg/Kg			12/17/24 19:12	1

Client Sample ID: BH - 90 (3')

Lab Sample ID: 890-7470-9
Matrix: Solid
Date Collected: 12/11/24 08:40
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 15:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 15:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 15:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:12	12/16/24 15:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:12	12/16/24 15:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/16/24 10:12*	*12/16/24 15:11*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 15:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 15:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/17/24 23:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 23:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 23:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 23:45	1
Total TPH	<49.7	U	49.7		mg/Kg		12/16/24 08:33	12/17/24 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:45*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/16/24 08:33*	*12/17/24 23:45*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 90 (3')
Date Collected: 12/11/24 08:40
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		10.0		mg/Kg			12/17/24 19:32	1

Client Sample ID: BH - 91 (3')
Date Collected: 12/11/24 08:45
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 15:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 15:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 15:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 15:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 15:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/16/24 10:12*	*12/16/24 15:32*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 15:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 15:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/18/24 00:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:00	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/16/24 08:33*	*12/18/24 00:00*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/16/24 08:33*	*12/18/24 00:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		9.92		mg/Kg			12/17/24 19:39	1

Client Sample ID: BH - 92 (4')
Date Collected: 12/11/24 08:50
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 17:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 17:05	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 92 (4')

Lab Sample ID: 890-7470-11
Matrix: Solid
Date Collected: 12/11/24 08:50
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 17:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 17:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 17:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/16/24 10:12*	*12/16/24 17:05*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 17:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 17:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/18/24 00:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/18/24 00:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/18/24 00:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/18/24 00:14	1
Total TPH	<49.9	U	49.9		mg/Kg		12/16/24 08:33	12/18/24 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/16/24 08:33*	*12/18/24 00:14*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*12/16/24 08:33*	*12/18/24 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**582**		10.0		mg/Kg			12/17/24 19:46	1

Client Sample ID: BH - 93 (4')

Lab Sample ID: 890-7470-12
Matrix: Solid
Date Collected: 12/11/24 08:55
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/24 10:12	12/16/24 17:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/16/24 10:12	12/16/24 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/16/24 10:12*	*12/16/24 17:26*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 17:26*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 93 (4')

Lab Sample ID: 890-7470-12
Matrix: Solid
Date Collected: 12/11/24 08:55
Date Received: 12/13/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/16/24 17:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/18/24 00:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/18/24 00:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/18/24 00:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/18/24 00:30	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/18/24 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/16/24 08:33*	*12/18/24 00:30*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:33*	*12/18/24 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**523**		10.1		mg/Kg			12/17/24 19:53	1

Client Sample ID: BH - 94 (3')

Lab Sample ID: 890-7470-13
Matrix: Solid
Date Collected: 12/11/24 09:00
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 17:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 17:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 17:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/16/24 10:12	12/16/24 17:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/16/24 10:12	12/16/24 17:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/16/24 10:12	12/16/24 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/16/24 10:12*	*12/16/24 17:46*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 17:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/16/24 17:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/18/24 00:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:45	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 94 (3')

Lab Sample ID: 890-7470-13
Matrix: Solid
Date Collected: 12/11/24 09:00
Date Received: 12/13/24 08:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:45	1
Total TPH	<49.8	U	49.8		mg/Kg		12/16/24 08:33	12/18/24 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/16/24 08:33*	*12/18/24 00:45*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/16/24 08:33*	*12/18/24 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**682**		9.92		mg/Kg			12/17/24 20:00	1

Client Sample ID: BH - 80 (4')

Lab Sample ID: 890-7470-14
Matrix: Solid
Date Collected: 12/11/24 09:05
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 18:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 18:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 18:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 18:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/16/24 10:12	12/16/24 18:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/16/24 10:12	12/16/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/16/24 10:12*	*12/16/24 18:07*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 18:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/16/24 18:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/16/24 19:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 19:23	1
Total TPH	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/12/24 09:47*	*12/16/24 19:23*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/12/24 09:47*	*12/16/24 19:23*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 80 (4')

Lab Sample ID: 890-7470-14
Matrix: Solid
Date Collected: 12/11/24 09:05
Date Received: 12/13/24 08:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		50.5		mg/Kg			12/17/24 20:07	5

Client Sample ID: BH - 81 (4')

Lab Sample ID: 890-7470-15
Matrix: Solid
Date Collected: 12/11/24 09:10
Date Received: 12/13/24 08:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 18:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 18:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 18:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 18:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/16/24 10:12	12/16/24 18:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/24 10:12	12/16/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/16/24 10:12*	*12/16/24 18:27*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/16/24 10:12*	*12/16/24 18:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/24 18:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/16/24 19:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/12/24 09:47	12/16/24 19:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 09:47	12/16/24 19:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 09:47	12/16/24 19:38	1
Total TPH	<49.8	U	49.8		mg/Kg		12/12/24 09:47	12/16/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/12/24 09:47*	*12/16/24 19:38*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/12/24 09:47*	*12/16/24 19:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		50.1		mg/Kg			12/17/24 20:14	5

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7470-1	BH - 82 (3')	112	107
890-7470-1 MS	BH - 82 (3')	106	103
890-7470-1 MSD	BH - 82 (3')	109	104
890-7470-2	BH - 83 (3')	115	107
890-7470-3	BH - 84 (3')	110	106
890-7470-4	BH - 85 (3')	110	107
890-7470-5	BH - 86 (3')	111	106
890-7470-6	BH - 87 (3')	110	107
890-7470-7	BH - 88 (3')	110	106
890-7470-8	BH - 89 (3')	111	107
890-7470-9	BH - 90 (3')	110	106
890-7470-10	BH - 91 (3')	114	106
890-7470-11	BH - 92 (4')	111	106
890-7470-12	BH - 93 (4')	112	107
890-7470-13	BH - 94 (3')	111	106
890-7470-14	BH - 80 (4')	113	107
890-7470-15	BH - 81 (4')	112	106
LCS 880-97932/1-A	Lab Control Sample	107	104
LCSD 880-97932/2-A	Lab Control Sample Dup	108	104
MB 880-97932/5-A	Method Blank	107	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-52124-A-26-B MS	Matrix Spike	93	74
880-52124-A-26-C MSD	Matrix Spike Duplicate	94	75
890-7469-A-9-B MS	Matrix Spike	87	70
890-7469-A-9-C MSD	Matrix Spike Duplicate	88	70
890-7470-1	BH - 82 (3')	88	77
890-7470-2	BH - 83 (3')	84	73
890-7470-3	BH - 84 (3')	85	74
890-7470-4	BH - 85 (3')	82	73
890-7470-5	BH - 86 (3')	77	68 S1-
890-7470-6	BH - 87 (3')	88	77
890-7470-7	BH - 88 (3')	86	75
890-7470-8	BH - 89 (3')	87	77
890-7470-9	BH - 90 (3')	90	78
890-7470-10	BH - 91 (3')	79	70
890-7470-11	BH - 92 (4')	78	68 S1-
890-7470-12	BH - 93 (4')	87	75
890-7470-13	BH - 94 (3')	85	76
890-7470-14	BH - 80 (4')	81	70
890-7470-15	BH - 81 (4')	85	73

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
LCS 880-97706/2-A	Lab Control Sample	122	99								
LCS 880-97913/2-A	Lab Control Sample	125	100								
LCSD 880-97706/3-A	Lab Control Sample Dup	116	93								
LCSD 880-97913/3-A	Lab Control Sample Dup	116	93								
MB 880-97706/1-A	Method Blank	70	63 S1-								
MB 880-97913/1-A	Method Blank	86	75								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97932/5-A
Matrix: Solid
Analysis Batch: 97908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 12:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 12:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 12:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/16/24 10:12	12/16/24 12:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/16/24 10:12	12/16/24 12:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/24 10:12	12/16/24 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/16/24 10:12*	*12/16/24 12:06*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/16/24 10:12*	*12/16/24 12:06*	*1*

Lab Sample ID: LCS 880-97932/1-A
Matrix: Solid
Analysis Batch: 97908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08870		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130
Toluene	0.100	0.09748		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2073		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-97932/2-A
Matrix: Solid
Analysis Batch: 97908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09076		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	4	35
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2148		mg/Kg		107	70 - 130	4	35
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-7470-1 MS
Matrix: Solid
Analysis Batch: 97908

Client Sample ID: BH - 82 (3')
Prep Type: Total/NA
Prep Batch: 97932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08017		mg/Kg		80	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09164		mg/Kg		92	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7470-1 MS
Matrix: Solid
Analysis Batch: 97908

Client Sample ID: BH - 82 (3')
Prep Type: Total/NA
Prep Batch: 97932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00201	U	0.100	0.08839		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1838		mg/Kg		92	70 - 130
o-Xylene	<0.00201	U	0.100	0.09790		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7470-1 MSD
Matrix: Solid
Analysis Batch: 97908

Client Sample ID: BH - 82 (3')
Prep Type: Total/NA
Prep Batch: 97932

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08426		mg/Kg		84	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.100	0.09566		mg/Kg		96	70 - 130	4	35
Toluene	<0.00201	U	0.100	0.09223		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1924		mg/Kg		96	70 - 130	5	35
o-Xylene	<0.00201	U	0.100	0.1023		mg/Kg		102	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-97706/1-A
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 10:10	1
Total TPH	<50.0	U	50.0		mg/Kg		12/12/24 09:47	12/16/24 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*12/12/24 09:47*	*12/16/24 10:10*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*12/12/24 09:47*	*12/16/24 10:10*	*1*

Lab Sample ID: LCS 880-97706/2-A
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97706

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1209		mg/Kg		121	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-97706/2-A
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97706

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	943.1		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-97706/3-A
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97706

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1177		mg/Kg		118	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	893.0		mg/Kg		89	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: 880-52124-A-26-B MS
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	901.4		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	634.5	F1	mg/Kg		64	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: 880-52124-A-26-C MSD
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	843.3		mg/Kg		85	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	644.9	F1	mg/Kg		65	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-97913/1-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1
Total TPH	<50.0	U	50.0		mg/Kg		12/16/24 08:33	12/17/24 18:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/16/24 08:33*	*12/17/24 18:36*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/16/24 08:33*	*12/17/24 18:36*	*1*

Lab Sample ID: LCS 880-97913/2-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97913

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1242		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	959.5		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*125*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-97913/3-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97913

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1174		mg/Kg		117	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	896.9		mg/Kg		90	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: 890-7469-A-9-B MS
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	835.6		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	615.6	F1	mg/Kg		62	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7469-A-9-B MS
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97913

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Lab Sample ID: 890-7469-A-9-C MSD
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	772.8		mg/Kg		78	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	609.9	F1	mg/Kg		61	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97925/1-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/16/24 17:45	1

Lab Sample ID: LCS 880-97925/2-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-97925/3-A
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7469-A-10-C MS
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	324		253	567.3		mg/Kg		96	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7469-A-10-D MSD
Matrix: Solid
Analysis Batch: 97958

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	324		253	567.8		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-98016/1-A
Matrix: Solid
Analysis Batch: 98063

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/17/24 16:47	1

Lab Sample ID: LCS 880-98016/2-A
Matrix: Solid
Analysis Batch: 98063

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	273.9		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-98016/3-A
Matrix: Solid
Analysis Batch: 98063

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	273.9		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 890-7470-6 MS
Matrix: Solid
Analysis Batch: 98063

Client Sample ID: BH - 87 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	749	F1	249	1033	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 890-7470-6 MSD
Matrix: Solid
Analysis Batch: 98063

Client Sample ID: BH - 87 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	749	F1	249	1035	F1	mg/Kg		115	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

GC VOA

Analysis Batch: 97908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Total/NA	Solid	8021B	97932
890-7470-2	BH - 83 (3')	Total/NA	Solid	8021B	97932
890-7470-3	BH - 84 (3')	Total/NA	Solid	8021B	97932
890-7470-4	BH - 85 (3')	Total/NA	Solid	8021B	97932
890-7470-5	BH - 86 (3')	Total/NA	Solid	8021B	97932
890-7470-6	BH - 87 (3')	Total/NA	Solid	8021B	97932
890-7470-7	BH - 88 (3')	Total/NA	Solid	8021B	97932
890-7470-8	BH - 89 (3')	Total/NA	Solid	8021B	97932
890-7470-9	BH - 90 (3')	Total/NA	Solid	8021B	97932
890-7470-10	BH - 91 (3')	Total/NA	Solid	8021B	97932
890-7470-11	BH - 92 (4')	Total/NA	Solid	8021B	97932
890-7470-12	BH - 93 (4')	Total/NA	Solid	8021B	97932
890-7470-13	BH - 94 (3')	Total/NA	Solid	8021B	97932
890-7470-14	BH - 80 (4')	Total/NA	Solid	8021B	97932
890-7470-15	BH - 81 (4')	Total/NA	Solid	8021B	97932
MB 880-97932/5-A	Method Blank	Total/NA	Solid	8021B	97932
LCS 880-97932/1-A	Lab Control Sample	Total/NA	Solid	8021B	97932
LCSD 880-97932/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97932
890-7470-1 MS	BH - 82 (3')	Total/NA	Solid	8021B	97932
890-7470-1 MSD	BH - 82 (3')	Total/NA	Solid	8021B	97932

Prep Batch: 97932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Total/NA	Solid	5035	
890-7470-2	BH - 83 (3')	Total/NA	Solid	5035	
890-7470-3	BH - 84 (3')	Total/NA	Solid	5035	
890-7470-4	BH - 85 (3')	Total/NA	Solid	5035	
890-7470-5	BH - 86 (3')	Total/NA	Solid	5035	
890-7470-6	BH - 87 (3')	Total/NA	Solid	5035	
890-7470-7	BH - 88 (3')	Total/NA	Solid	5035	
890-7470-8	BH - 89 (3')	Total/NA	Solid	5035	
890-7470-9	BH - 90 (3')	Total/NA	Solid	5035	
890-7470-10	BH - 91 (3')	Total/NA	Solid	5035	
890-7470-11	BH - 92 (4')	Total/NA	Solid	5035	
890-7470-12	BH - 93 (4')	Total/NA	Solid	5035	
890-7470-13	BH - 94 (3')	Total/NA	Solid	5035	
890-7470-14	BH - 80 (4')	Total/NA	Solid	5035	
890-7470-15	BH - 81 (4')	Total/NA	Solid	5035	
MB 880-97932/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97932/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97932/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7470-1 MS	BH - 82 (3')	Total/NA	Solid	5035	
890-7470-1 MSD	BH - 82 (3')	Total/NA	Solid	5035	

Analysis Batch: 97985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Total/NA	Solid	Total BTEX	
890-7470-2	BH - 83 (3')	Total/NA	Solid	Total BTEX	
890-7470-3	BH - 84 (3')	Total/NA	Solid	Total BTEX	
890-7470-4	BH - 85 (3')	Total/NA	Solid	Total BTEX	
890-7470-5	BH - 86 (3')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

GC VOA (Continued)

Analysis Batch: 97985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-6	BH - 87 (3')	Total/NA	Solid	Total BTEX	
890-7470-7	BH - 88 (3')	Total/NA	Solid	Total BTEX	
890-7470-8	BH - 89 (3')	Total/NA	Solid	Total BTEX	
890-7470-9	BH - 90 (3')	Total/NA	Solid	Total BTEX	
890-7470-10	BH - 91 (3')	Total/NA	Solid	Total BTEX	
890-7470-11	BH - 92 (4')	Total/NA	Solid	Total BTEX	
890-7470-12	BH - 93 (4')	Total/NA	Solid	Total BTEX	
890-7470-13	BH - 94 (3')	Total/NA	Solid	Total BTEX	
890-7470-14	BH - 80 (4')	Total/NA	Solid	Total BTEX	
890-7470-15	BH - 81 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-14	BH - 80 (4')	Total/NA	Solid	8015NM Prep	
890-7470-15	BH - 81 (4')	Total/NA	Solid	8015NM Prep	
MB 880-97706/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97706/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97706/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52124-A-26-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52124-A-26-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 97913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Total/NA	Solid	8015NM Prep	
890-7470-2	BH - 83 (3')	Total/NA	Solid	8015NM Prep	
890-7470-3	BH - 84 (3')	Total/NA	Solid	8015NM Prep	
890-7470-4	BH - 85 (3')	Total/NA	Solid	8015NM Prep	
890-7470-5	BH - 86 (3')	Total/NA	Solid	8015NM Prep	
890-7470-6	BH - 87 (3')	Total/NA	Solid	8015NM Prep	
890-7470-7	BH - 88 (3')	Total/NA	Solid	8015NM Prep	
890-7470-8	BH - 89 (3')	Total/NA	Solid	8015NM Prep	
890-7470-9	BH - 90 (3')	Total/NA	Solid	8015NM Prep	
890-7470-10	BH - 91 (3')	Total/NA	Solid	8015NM Prep	
890-7470-11	BH - 92 (4')	Total/NA	Solid	8015NM Prep	
890-7470-12	BH - 93 (4')	Total/NA	Solid	8015NM Prep	
890-7470-13	BH - 94 (3')	Total/NA	Solid	8015NM Prep	
MB 880-97913/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97913/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7469-A-9-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7469-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-14	BH - 80 (4')	Total/NA	Solid	8015B NM	97706
890-7470-15	BH - 81 (4')	Total/NA	Solid	8015B NM	97706
MB 880-97706/1-A	Method Blank	Total/NA	Solid	8015B NM	97706
LCS 880-97706/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97706
LCSD 880-97706/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97706

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

GC Semi VOA (Continued)

Analysis Batch: 97954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52124-A-26-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97706
880-52124-A-26-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97706

Analysis Batch: 98052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Total/NA	Solid	8015B NM	97913
890-7470-2	BH - 83 (3')	Total/NA	Solid	8015B NM	97913
890-7470-3	BH - 84 (3')	Total/NA	Solid	8015B NM	97913
890-7470-4	BH - 85 (3')	Total/NA	Solid	8015B NM	97913
890-7470-5	BH - 86 (3')	Total/NA	Solid	8015B NM	97913
890-7470-6	BH - 87 (3')	Total/NA	Solid	8015B NM	97913
890-7470-7	BH - 88 (3')	Total/NA	Solid	8015B NM	97913
890-7470-8	BH - 89 (3')	Total/NA	Solid	8015B NM	97913
890-7470-9	BH - 90 (3')	Total/NA	Solid	8015B NM	97913
890-7470-10	BH - 91 (3')	Total/NA	Solid	8015B NM	97913
890-7470-11	BH - 92 (4')	Total/NA	Solid	8015B NM	97913
890-7470-12	BH - 93 (4')	Total/NA	Solid	8015B NM	97913
890-7470-13	BH - 94 (3')	Total/NA	Solid	8015B NM	97913
MB 880-97913/1-A	Method Blank	Total/NA	Solid	8015B NM	97913
LCS 880-97913/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97913
LCSD 880-97913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97913
890-7469-A-9-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97913
890-7469-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97913

Analysis Batch: 98061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Total/NA	Solid	8015 NM	
890-7470-2	BH - 83 (3')	Total/NA	Solid	8015 NM	
890-7470-3	BH - 84 (3')	Total/NA	Solid	8015 NM	
890-7470-4	BH - 85 (3')	Total/NA	Solid	8015 NM	
890-7470-5	BH - 86 (3')	Total/NA	Solid	8015 NM	
890-7470-6	BH - 87 (3')	Total/NA	Solid	8015 NM	
890-7470-7	BH - 88 (3')	Total/NA	Solid	8015 NM	
890-7470-8	BH - 89 (3')	Total/NA	Solid	8015 NM	
890-7470-9	BH - 90 (3')	Total/NA	Solid	8015 NM	
890-7470-10	BH - 91 (3')	Total/NA	Solid	8015 NM	
890-7470-11	BH - 92 (4')	Total/NA	Solid	8015 NM	
890-7470-12	BH - 93 (4')	Total/NA	Solid	8015 NM	
890-7470-13	BH - 94 (3')	Total/NA	Solid	8015 NM	
890-7470-14	BH - 80 (4')	Total/NA	Solid	8015 NM	
890-7470-15	BH - 81 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Soluble	Solid	DI Leach	
890-7470-2	BH - 83 (3')	Soluble	Solid	DI Leach	
890-7470-3	BH - 84 (3')	Soluble	Solid	DI Leach	
890-7470-4	BH - 85 (3')	Soluble	Solid	DI Leach	
MB 880-97925/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Leach Batch: 97925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-97925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7469-A-10-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7469-A-10-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 97958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-1	BH - 82 (3')	Soluble	Solid	300.0	97925
890-7470-2	BH - 83 (3')	Soluble	Solid	300.0	97925
890-7470-3	BH - 84 (3')	Soluble	Solid	300.0	97925
890-7470-4	BH - 85 (3')	Soluble	Solid	300.0	97925
MB 880-97925/1-A	Method Blank	Soluble	Solid	300.0	97925
LCS 880-97925/2-A	Lab Control Sample	Soluble	Solid	300.0	97925
LCSD 880-97925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97925
890-7469-A-10-C MS	Matrix Spike	Soluble	Solid	300.0	97925
890-7469-A-10-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97925

Leach Batch: 98016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-5	BH - 86 (3')	Soluble	Solid	DI Leach	
890-7470-6	BH - 87 (3')	Soluble	Solid	DI Leach	
890-7470-7	BH - 88 (3')	Soluble	Solid	DI Leach	
890-7470-8	BH - 89 (3')	Soluble	Solid	DI Leach	
890-7470-9	BH - 90 (3')	Soluble	Solid	DI Leach	
890-7470-10	BH - 91 (3')	Soluble	Solid	DI Leach	
890-7470-11	BH - 92 (4')	Soluble	Solid	DI Leach	
890-7470-12	BH - 93 (4')	Soluble	Solid	DI Leach	
890-7470-13	BH - 94 (3')	Soluble	Solid	DI Leach	
890-7470-14	BH - 80 (4')	Soluble	Solid	DI Leach	
890-7470-15	BH - 81 (4')	Soluble	Solid	DI Leach	
MB 880-98016/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98016/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98016/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7470-6 MS	BH - 87 (3')	Soluble	Solid	DI Leach	
890-7470-6 MSD	BH - 87 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 98063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7470-5	BH - 86 (3')	Soluble	Solid	300.0	98016
890-7470-6	BH - 87 (3')	Soluble	Solid	300.0	98016
890-7470-7	BH - 88 (3')	Soluble	Solid	300.0	98016
890-7470-8	BH - 89 (3')	Soluble	Solid	300.0	98016
890-7470-9	BH - 90 (3')	Soluble	Solid	300.0	98016
890-7470-10	BH - 91 (3')	Soluble	Solid	300.0	98016
890-7470-11	BH - 92 (4')	Soluble	Solid	300.0	98016
890-7470-12	BH - 93 (4')	Soluble	Solid	300.0	98016
890-7470-13	BH - 94 (3')	Soluble	Solid	300.0	98016
890-7470-14	BH - 80 (4')	Soluble	Solid	300.0	98016
890-7470-15	BH - 81 (4')	Soluble	Solid	300.0	98016
MB 880-98016/1-A	Method Blank	Soluble	Solid	300.0	98016
LCS 880-98016/2-A	Lab Control Sample	Soluble	Solid	300.0	98016

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Analysis Batch: 98063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-98016/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98016
890-7470-6 MS	BH - 87 (3')	Soluble	Solid	300.0	98016
890-7470-6 MSD	BH - 87 (3')	Soluble	Solid	300.0	98016

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 82 (3')
Date Collected: 12/11/24 08:00
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 12:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 12:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 21:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 21:33	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 20:24	CH	EET MID

Client Sample ID: BH - 83 (3')
Date Collected: 12/11/24 08:05
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 21:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 21:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 20:30	CH	EET MID

Client Sample ID: BH - 84 (3')
Date Collected: 12/11/24 08:10
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 13:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 22:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 22:02	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 20:36	CH	EET MID

Client Sample ID: BH - 85 (3')
Date Collected: 12/11/24 08:15
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 13:29	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 85 (3')
Date Collected: 12/11/24 08:15
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98061	12/17/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 22:31	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97925	12/16/24 09:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97958	12/16/24 20:42	CH	EET MID

Client Sample ID: BH - 86 (3')
Date Collected: 12/11/24 08:20
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 13:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 22:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 22:46	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 18:37	CH	EET MID

Client Sample ID: BH - 87 (3')
Date Collected: 12/11/24 08:25
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 18:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 18:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 23:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 23:00	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 18:44	CH	EET MID

Client Sample ID: BH - 88 (3')
Date Collected: 12/11/24 08:30
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 23:16	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 88 (3')
Date Collected: 12/11/24 08:30
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 19:05	CH	EET MID

Client Sample ID: BH - 89 (3')
Date Collected: 12/11/24 08:35
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 14:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 23:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 23:30	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 19:12	CH	EET MID

Client Sample ID: BH - 90 (3')
Date Collected: 12/11/24 08:40
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 15:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/17/24 23:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 23:45	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 19:32	CH	EET MID

Client Sample ID: BH - 91 (3')
Date Collected: 12/11/24 08:45
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 15:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 15:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/18/24 00:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/18/24 00:00	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 19:39	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 92 (4')
Date Collected: 12/11/24 08:50
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 17:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 17:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/18/24 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/18/24 00:14	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 19:46	CH	EET MID

Client Sample ID: BH - 93 (4')
Date Collected: 12/11/24 08:55
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 17:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 17:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/18/24 00:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/18/24 00:30	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 19:53	CH	EET MID

Client Sample ID: BH - 94 (3')
Date Collected: 12/11/24 09:00
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 17:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/18/24 00:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97913	12/16/24 08:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/18/24 00:45	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98063	12/17/24 20:00	CH	EET MID

Client Sample ID: BH - 80 (4')
Date Collected: 12/11/24 09:05
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 18:07	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 80 (4')

Date Collected: 12/11/24 09:05
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98061	12/16/24 19:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97706	12/12/24 09:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 19:23	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98063	12/17/24 20:07	CH	EET MID

Client Sample ID: BH - 81 (4')

Date Collected: 12/11/24 09:10
Date Received: 12/13/24 08:00

Lab Sample ID: 890-7470-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97932	12/16/24 10:12	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97908	12/16/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97985	12/16/24 18:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			98061	12/16/24 19:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97706	12/12/24 09:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 19:38	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98016	12/17/24 09:26	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98063	12/17/24 20:14	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7470-1
SDG: 212C - MD - 03085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7470-1	BH - 82 (3')	Solid	12/11/24 08:00	12/13/24 08:00
890-7470-2	BH - 83 (3')	Solid	12/11/24 08:05	12/13/24 08:00
890-7470-3	BH - 84 (3')	Solid	12/11/24 08:10	12/13/24 08:00
890-7470-4	BH - 85 (3')	Solid	12/11/24 08:15	12/13/24 08:00
890-7470-5	BH - 86 (3')	Solid	12/11/24 08:20	12/13/24 08:00
890-7470-6	BH - 87 (3')	Solid	12/11/24 08:25	12/13/24 08:00
890-7470-7	BH - 88 (3')	Solid	12/11/24 08:30	12/13/24 08:00
890-7470-8	BH - 89 (3')	Solid	12/11/24 08:35	12/13/24 08:00
890-7470-9	BH - 90 (3')	Solid	12/11/24 08:40	12/13/24 08:00
890-7470-10	BH - 91 (3')	Solid	12/11/24 08:45	12/13/24 08:00
890-7470-11	BH - 92 (4')	Solid	12/11/24 08:50	12/13/24 08:00
890-7470-12	BH - 93 (4')	Solid	12/11/24 08:55	12/13/24 08:00
890-7470-13	BH - 94 (3')	Solid	12/11/24 09:00	12/13/24 08:00
890-7470-14	BH - 80 (4')	Solid	12/11/24 09:05	12/13/24 08:00
890-7470-15	BH - 81 (4')	Solid	12/11/24 09:10	12/13/24 08:00

Page 594 of 1592

Analysis Request of Chain of Custody Record

12/31/2024

Tetra Tech, Inc.

901 W Wall Street, S
Midland, Texas 79
Tel (432) 682-45
Fax (432) 682-39

890-7470 Chain of Custody

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	BH-82 (3')	12/11/2024	0800		X			X			X		X												X								
	BH-83 (3')	12/11/2024	0805		X			X			X		X												X								
	BH-84 (3')	12/11/2024	0810		X			X			X		X												X								
	BH-85 (3')	12/11/2024	0815		X			X			X		X												X								
	BH-86 (3')	12/11/2024	0820		X			X			X		X												X								
	BH-87 (3')	12/11/2024	0825		X			X			X		X												X								
	BH-88 (3')	12/11/2024	0830		X			X			X		X												X								
	BH-89 (3')	12/11/2024	0835		X			X			X		X												X								
	BH-90 (3')	12/11/2024	0840		X			X			X		X												X								
	BH-91 (3')	12/11/2024	0845		X			X			X		X												X								

Relinquished by:	Date: 12-13-24	Time: 0800	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/13 Time: 800

LAB USE ONLY

Sample Temperature
Turn 1 -0.2
1.8
1.6

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 505 of 1592

Analysis Request of Chain of Custody Record

Page 2 of 2

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	BTEX 8260B	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-92 (4')	12/11/2024	0850		X			X			X		X													X				
	BH-93 (4')	12/11/2024	0855		X			X			X		X													X				
	BH-94 (3')	12/11/2024	0900		X			X			X		X													X				
	BH-80 (4')	12/11/2024	0905		X			X			X		X													X				
	BH-81 (4')	12/11/2024	0910		X			X			X		X													X				

Relinquished by:	Date: 12-13-24	Time: 0800	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: Time:

LAB USE ONLY

Sample Temperature
Tmeas -0.2
1.8
1.6

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 40 of 42

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7470-1
SDG Number: 212C - MD - 03085

Login Number: 7470
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7470-1
SDG Number: 212C - MD - 03085

Login Number: 7470
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/16/24 08:21 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/27/2024 9:29:20 AM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7502-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

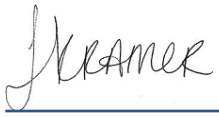
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/27/2024 9:29:20 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7502-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 22
QC Sample Results 24
QC Association Summary 28
Lab Chronicle 33
Certification Summary 39
Method Summary 40
Sample Summary 41
Chain of Custody 42
Receipt Checklists 46

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7502-1

Job ID: 890-7502-1 Eurofins Carlsbad

Job Narrative
890-7502-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/20/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 119 (3') (890-7502-1), BH - 120 (3') (890-7502-2), BH - 122 (3') (890-7502-3), BH - 123 (3') (890-7502-4), BH - 124 (3') (890-7502-5), BH - 125 (3') (890-7502-6), BH - 126 (3') (890-7502-7), BH - 100 (4') (890-7502-8), BH - 131 (3') (890-7502-9), BH - 128 (4') (890-7502-10), BH - 133 (4') (890-7502-11), BH - 102 (4') (890-7502-12), BH - 132 (4') (890-7502-13), BH - 114 (3') (890-7502-14), BH - 117 (3') (890-7502-15), BH - 115 (3') (890-7502-16), BH - 107 (4') (890-7502-17), BH - 105 (4') (890-7502-18), BH - 116 (3') (890-7502-19), BH - 130 (3') (890-7502-20) and BH - 129 (4') (890-7502-21).

One or more containers for the following samples were received empty: BH - 119 (3') (890-7502-1), BH - 120 (3') (890-7502-2), BH - 122 (3') (890-7502-3), BH - 123 (3') (890-7502-4), BH - 124 (3') (890-7502-5), BH - 125 (3') (890-7502-6), BH - 126 (3') (890-7502-7), BH - 100 (4') (890-7502-8), BH - 131 (3') (890-7502-9), BH - 128 (4') (890-7502-10), BH - 133 (4') (890-7502-11), BH - 102 (4') (890-7502-12), BH - 132 (4') (890-7502-13), BH - 114 (3') (890-7502-14), BH - 117 (3') (890-7502-15), BH - 115 (3') (890-7502-16), BH - 107 (4') (890-7502-17), BH - 105 (4') (890-7502-18), BH - 116 (3') (890-7502-19), BH - 130 (3') (890-7502-20) and BH - 129 (4') (890-7502-21).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98769 and analytical batch 880-98815 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH - 126 (3') (890-7502-7). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98557 and analytical batch 880-98649 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 122 (3')

Lab Sample ID: 890-7502-3
Date Collected: 12/16/24 08:10
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 11:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 11:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 11:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 11:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 11:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/23/24 09:10*	*12/23/24 11:49*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/23/24 09:10*	*12/23/24 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 11:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 16:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/26/24 07:48	12/26/24 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 16:31	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*12/26/24 07:48*	*12/26/24 16:31*	*1*
o-Terphenyl	*121*		*70 - 130*	*12/26/24 07:48*	*12/26/24 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**306**	**F1**	9.92		mg/Kg			12/23/24 12:40	1

Client Sample ID: BH - 123 (3')

Lab Sample ID: 890-7502-4
Date Collected: 12/16/24 08:15
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 12:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 12:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 12:09	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:10	12/23/24 12:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:10	12/23/24 12:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/23/24 09:10*	*12/23/24 12:09*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/23/24 09:10*	*12/23/24 12:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 123 (3')

Lab Sample ID: 890-7502-4
Matrix: Solid
Date Collected: 12/16/24 08:15
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 12:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 17:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:20	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*12/26/24 07:48*	*12/26/24 17:20*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/26/24 07:48*	*12/26/24 17:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		9.96		mg/Kg			12/23/24 13:12	1

Client Sample ID: BH - 124 (3')

Lab Sample ID: 890-7502-5
Matrix: Solid
Date Collected: 12/16/24 08:20
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 12:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 12:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 12:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:10	12/23/24 12:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:10	12/23/24 12:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:10*	*12/23/24 12:30*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:10*	*12/23/24 12:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 12:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 17:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 17:36	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 124 (3')

Lab Sample ID: 890-7502-5
Matrix: Solid
Date Collected: 12/16/24 08:20
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 17:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 17:36	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*12/26/24 07:48*	*12/26/24 17:36*	*1*
o-Terphenyl	*110*		*70 - 130*	*12/26/24 07:48*	*12/26/24 17:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		10.0		mg/Kg			12/23/24 13:18	1

Client Sample ID: BH - 125 (3')

Lab Sample ID: 890-7502-6
Matrix: Solid
Date Collected: 12/16/24 08:25
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 12:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 12:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 12:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 12:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 12:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/23/24 09:10*	*12/23/24 12:50*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:10*	*12/23/24 12:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 12:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 17:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:52	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*12/26/24 07:48*	*12/26/24 17:52*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/26/24 07:48*	*12/26/24 17:52*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 125 (3')

Lab Sample ID: 890-7502-6
Matrix: Solid
Date Collected: 12/16/24 08:25
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		9.98		mg/Kg			12/23/24 13:24	1

Client Sample ID: BH - 126 (3')

Lab Sample ID: 890-7502-7
Matrix: Solid
Date Collected: 12/16/24 08:30
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 13:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 13:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 13:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:10	12/23/24 13:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:10	12/23/24 13:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/23/24 09:10*	*12/23/24 13:10*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/23/24 09:10*	*12/23/24 13:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 13:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 18:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 18:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 18:08	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*12/26/24 07:48*	*12/26/24 18:08*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*12/26/24 07:48*	*12/26/24 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		10.0		mg/Kg			12/23/24 13:30	1

Client Sample ID: BH - 100 (4')

Lab Sample ID: 890-7502-8
Matrix: Solid
Date Collected: 12/16/24 08:35
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 13:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 13:31	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 100 (4')

Lab Sample ID: 890-7502-8
Matrix: Solid
Date Collected: 12/16/24 08:35
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 13:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:10	12/23/24 13:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:10	12/23/24 13:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:10*	*12/23/24 13:31*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/23/24 09:10*	*12/23/24 13:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 13:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 18:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:25	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*12/26/24 07:48*	*12/26/24 18:25*	*1*
o-Terphenyl	*113*		*70 - 130*	*12/26/24 07:48*	*12/26/24 18:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		9.90		mg/Kg			12/23/24 15:14	1

Client Sample ID: BH - 131 (3')

Lab Sample ID: 890-7502-9
Matrix: Solid
Date Collected: 12/16/24 08:40
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 13:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 13:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 13:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:10	12/23/24 13:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:10	12/23/24 13:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/23/24 09:10*	*12/23/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/23/24 09:10*	*12/23/24 13:51*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 131 (3')

Lab Sample ID: 890-7502-9
Matrix: Solid
Date Collected: 12/16/24 08:40
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 13:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 18:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:41	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*12/26/24 07:48*	*12/26/24 18:41*	*1*
o-Terphenyl	*119*		*70 - 130*	*12/26/24 07:48*	*12/26/24 18:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.9**		10.0		mg/Kg			12/23/24 15:20	1

Client Sample ID: BH - 128 (4')

Lab Sample ID: 890-7502-10
Matrix: Solid
Date Collected: 12/16/24 08:45
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 14:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 14:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 14:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:10	12/23/24 14:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:10	12/23/24 14:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/23/24 09:10*	*12/23/24 14:12*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:10*	*12/23/24 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 14:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 18:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 18:58	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 128 (4')

Lab Sample ID: 890-7502-10
Matrix: Solid
Date Collected: 12/16/24 08:45
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 18:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 18:58	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/26/24 07:48*	*12/26/24 18:58*	*1*
o-Terphenyl	*113*		*70 - 130*	*12/26/24 07:48*	*12/26/24 18:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**422**		9.96		mg/Kg			12/23/24 15:25	1

Client Sample ID: BH - 133 (4')

Lab Sample ID: 890-7502-11
Matrix: Solid
Date Collected: 12/16/24 09:00
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 14:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 14:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 14:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 14:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 14:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/23/24 09:10*	*12/23/24 14:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/23/24 09:10*	*12/23/24 14:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 14:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 19:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 19:14	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/26/24 07:48*	*12/26/24 19:14*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/26/24 07:48*	*12/26/24 19:14*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 133 (4')

Lab Sample ID: 890-7502-11
Matrix: Solid
Date Collected: 12/16/24 09:00
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		9.94		mg/Kg			12/23/24 15:31	1

Client Sample ID: BH - 102 (4')

Lab Sample ID: 890-7502-12
Matrix: Solid
Date Collected: 12/16/24 09:05
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 14:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 14:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 14:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:10	12/23/24 14:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:10	12/23/24 14:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/23/24 09:10*	*12/23/24 14:53*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:10*	*12/23/24 14:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 14:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/26/24 19:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 19:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 19:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 19:30	1
Total TPH	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*12/26/24 07:48*	*12/26/24 19:30*	*1*
o-Terphenyl	*113*		*70 - 130*	*12/26/24 07:48*	*12/26/24 19:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		49.8		mg/Kg			12/23/24 15:37	5

Client Sample ID: BH - 132 (4')

Lab Sample ID: 890-7502-13
Matrix: Solid
Date Collected: 12/16/24 09:10
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:27	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 132 (4')

Lab Sample ID: 890-7502-13
Date Collected: 12/16/24 09:10
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:10	12/23/24 16:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:10	12/23/24 16:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:10*	*12/23/24 16:27*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/23/24 09:10*	*12/23/24 16:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 16:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 20:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 20:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 20:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 20:01	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:01*	*1*
o-Terphenyl	*109*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.0**		9.90		mg/Kg			12/23/24 15:43	1

Client Sample ID: BH - 114 (3')

Lab Sample ID: 890-7502-14
Date Collected: 12/16/24 09:15
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:10	12/23/24 16:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:10	12/23/24 16:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:10*	*12/23/24 16:47*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/23/24 09:10*	*12/23/24 16:47*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 114 (3')

Lab Sample ID: 890-7502-14
Matrix: Solid
Date Collected: 12/16/24 09:15
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 16:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 20:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:18	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:18*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**199**		9.98		mg/Kg			12/23/24 17:32	1

Client Sample ID: BH - 117 (3')

Lab Sample ID: 890-7502-15
Matrix: Solid
Date Collected: 12/16/24 09:20
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 17:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 17:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 17:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 17:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 17:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/23/24 09:10*	*12/23/24 17:08*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/23/24 09:10*	*12/23/24 17:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 17:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/26/24 20:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 20:33	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 117 (3')

Lab Sample ID: 890-7502-15
Matrix: Solid
Date Collected: 12/16/24 09:20
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 20:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 20:33	1
Total TPH	<49.7	U	49.7		mg/Kg		12/26/24 07:48	12/26/24 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:33*	*1*
o-Terphenyl	*115*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.1**		10.1		mg/Kg			12/23/24 17:38	1

Client Sample ID: BH - 115 (3')

Lab Sample ID: 890-7502-16
Matrix: Solid
Date Collected: 12/16/24 09:25
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 17:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 17:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 17:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:10	12/23/24 17:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:10	12/23/24 17:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/23/24 09:10*	*12/23/24 17:28*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/23/24 09:10*	*12/23/24 17:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 17:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 20:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:49	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:49*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/26/24 07:48*	*12/26/24 20:49*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 115 (3')

Lab Sample ID: 890-7502-16
Matrix: Solid
Date Collected: 12/16/24 09:25
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		10.0		mg/Kg			12/23/24 17:56	1

Client Sample ID: BH - 107 (4')

Lab Sample ID: 890-7502-17
Matrix: Solid
Date Collected: 12/16/24 09:30
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 17:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 17:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 17:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/23/24 09:10	12/23/24 17:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/23/24 09:10	12/23/24 17:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:10	12/23/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/23/24 09:10*	*12/23/24 17:48*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:10*	*12/23/24 17:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/23/24 17:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 21:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:06	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:06*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7180		100		mg/Kg			12/23/24 18:01	10

Client Sample ID: BH - 105 (4')

Lab Sample ID: 890-7502-18
Matrix: Solid
Date Collected: 12/16/24 09:35
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 18:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 18:09	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 105 (4')

Lab Sample ID: 890-7502-18
Date Collected: 12/16/24 09:35
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 18:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:10	12/23/24 18:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:10	12/23/24 18:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/23/24 09:10*	*12/23/24 18:09*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/23/24 09:10*	*12/23/24 18:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 18:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 21:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:21	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:21*	*1*
o-Terphenyl	*108*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2310**		49.8		mg/Kg			12/23/24 18:07	5

Client Sample ID: BH - 116 (3')

Lab Sample ID: 890-7502-19
Date Collected: 12/16/24 09:40
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 18:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 18:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 18:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 18:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:10	12/23/24 18:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:10	12/23/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:10*	*12/23/24 18:29*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/23/24 09:10*	*12/23/24 18:29*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 116 (3')

Lab Sample ID: 890-7502-19
Matrix: Solid
Date Collected: 12/16/24 09:40
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 18:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 21:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 21:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 21:37	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:37*	*1*
o-Terphenyl	*114*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		9.94		mg/Kg			12/23/24 18:13	1

Client Sample ID: BH - 130 (3')

Lab Sample ID: 890-7502-20
Matrix: Solid
Date Collected: 12/16/24 09:45
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 18:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 18:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 18:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:10	12/23/24 18:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:10	12/23/24 18:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:10	12/23/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/23/24 09:10*	*12/23/24 18:50*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/23/24 09:10*	*12/23/24 18:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 18:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 21:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 21:53	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 130 (3')

Lab Sample ID: 890-7502-20
Matrix: Solid
Date Collected: 12/16/24 09:45
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 21:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 21:53	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:48	12/26/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:53*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/26/24 07:48*	*12/26/24 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**213**		9.90		mg/Kg			12/23/24 18:19	1

Client Sample ID: BH - 129 (4')

Lab Sample ID: 890-7502-21
Matrix: Solid
Date Collected: 12/16/24 10:00
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 19:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 19:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 19:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:10	12/23/24 19:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:10	12/23/24 19:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/23/24 09:10*	*12/23/24 19:10*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:10*	*12/23/24 19:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/23/24 19:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 22:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:09	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*12/26/24 07:48*	*12/26/24 22:09*	*1*
o-Terphenyl	*122*		*70 - 130*	*12/26/24 07:48*	*12/26/24 22:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 129 (4')
Date Collected: 12/16/24 10:00
Date Received: 12/20/24 13:45

Lab Sample ID: 890-7502-21
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		9.90		mg/Kg			12/23/24 18:24	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7502-3	BH - 122 (3')	112	95
890-7502-3 MS	BH - 122 (3')	102	102
890-7502-3 MSD	BH - 122 (3')	106	106
890-7502-4	BH - 123 (3')	99	103
890-7502-5	BH - 124 (3')	105	107
890-7502-6	BH - 125 (3')	102	105
890-7502-7	BH - 126 (3')	103	101
890-7502-8	BH - 100 (4')	106	109
890-7502-9	BH - 131 (3')	104	100
890-7502-10	BH - 128 (4')	104	106
890-7502-11	BH - 133 (4')	103	99
890-7502-12	BH - 102 (4')	103	105
890-7502-13	BH - 132 (4')	105	110
890-7502-14	BH - 114 (3')	106	101
890-7502-15	BH - 117 (3')	101	104
890-7502-16	BH - 115 (3')	104	100
890-7502-17	BH - 107 (4')	104	107
890-7502-18	BH - 105 (4')	114	103
890-7502-19	BH - 116 (3')	105	100
890-7502-20	BH - 130 (3')	111	93
890-7502-21	BH - 129 (4')	103	107
LCS 880-98607/1-A	Lab Control Sample	97	102
LCSD 880-98607/2-A	Lab Control Sample Dup	94	102
MB 880-98607/5-A	Method Blank	100	97

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7502-3	BH - 122 (3')	113	121
890-7502-3 MS	BH - 122 (3')	113	120
890-7502-3 MSD	BH - 122 (3')	110	120
890-7502-4	BH - 123 (3')	110	118
890-7502-5	BH - 124 (3')	103	110
890-7502-6	BH - 125 (3')	99	107
890-7502-7	BH - 126 (3')	121	131 S1+
890-7502-8	BH - 100 (4')	105	113
890-7502-9	BH - 131 (3')	111	119
890-7502-10	BH - 128 (4')	106	113
890-7502-11	BH - 133 (4')	104	112
890-7502-12	BH - 102 (4')	105	113
890-7502-13	BH - 132 (4')	102	109
890-7502-14	BH - 114 (3')	99	107
890-7502-15	BH - 117 (3')	107	115

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
890-7502-16	BH - 115 (3')	98	107
890-7502-17	BH - 107 (4')	102	112
890-7502-18	BH - 105 (4')	101	108
890-7502-19	BH - 116 (3')	106	114
890-7502-20	BH - 130 (3')	104	112
890-7502-21	BH - 129 (4')	113	122
LCS 880-98769/2-A	Lab Control Sample	120	130
LCSD 880-98769/3-A	Lab Control Sample Dup	120	129
MB 880-98769/1-A	Method Blank	89	93

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98607/5-A
Matrix: Solid
Analysis Batch: 98599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98607

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:10	12/23/24 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:10	12/23/24 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:10	12/23/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/23/24 09:10*	*12/23/24 11:27*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/23/24 09:10*	*12/23/24 11:27*	*1*

Lab Sample ID: LCS 880-98607/1-A
Matrix: Solid
Analysis Batch: 98599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98607

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09749		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09196		mg/Kg		92	70 - 130
Toluene	0.100	0.09142		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1831		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09329		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-98607/2-A
Matrix: Solid
Analysis Batch: 98599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98607

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1062		mg/Kg		106	70 - 130	9	35
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130	10	35
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2020		mg/Kg		101	70 - 130	10	35
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7502-3 MS
Matrix: Solid
Analysis Batch: 98599

Client Sample ID: BH - 122 (3')
Prep Type: Total/NA
Prep Batch: 98607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09098		mg/Kg		91	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7502-3 MS
Matrix: Solid
Analysis Batch: 98599

Client Sample ID: BH - 122 (3')
Prep Type: Total/NA
Prep Batch: 98607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0996	0.09098		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1841		mg/Kg		92	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09227		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7502-3 MSD
Matrix: Solid
Analysis Batch: 98599

Client Sample ID: BH - 122 (3')
Prep Type: Total/NA
Prep Batch: 98607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09781		mg/Kg		97	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.09266		mg/Kg		92	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.09306		mg/Kg		92	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1867		mg/Kg		93	70 - 130	1	35
o-Xylene	<0.00199	U	0.101	0.09336		mg/Kg		93	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-98769/1-A
Matrix: Solid
Analysis Batch: 98815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/26/24 07:48*	*12/26/24 11:27*	*1*
o-Terphenyl	*93*		*70 - 130*	*12/26/24 07:48*	*12/26/24 11:27*	*1*

Lab Sample ID: LCS 880-98769/2-A
Matrix: Solid
Analysis Batch: 98815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1149		mg/Kg		115	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-98769/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1158		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Lab Sample ID: LCSD 880-98769/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1135		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1152		mg/Kg		115	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*129*		*70 - 130*

Lab Sample ID: 890-7502-3 MS — **Client Sample ID: BH - 122 (3')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	660.2	F1	mg/Kg		66	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	783.9		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: 890-7502-3 MSD — **Client Sample ID: BH - 122 (3')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	643.7	F1	mg/Kg		65	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	787.2		mg/Kg		79	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98557/1-A
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/23/24 12:22	1

Lab Sample ID: LCS 880-98557/2-A
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	234.4		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-98557/3-A
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	234.5		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-7502-3 MS
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: BH - 122 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	306	F1	248	602.3	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 890-7502-3 MSD
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: BH - 122 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	306	F1	248	601.0	F1	mg/Kg		119	90 - 110	0	20

Lab Sample ID: 890-7502-13 MS
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: BH - 132 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	60.0		248	326.4		mg/Kg		108	90 - 110		

Lab Sample ID: 890-7502-13 MSD
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: BH - 132 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.0		248	325.9		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 98599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Total/NA	Solid	8021B	98607
890-7502-4	BH - 123 (3')	Total/NA	Solid	8021B	98607
890-7502-5	BH - 124 (3')	Total/NA	Solid	8021B	98607
890-7502-6	BH - 125 (3')	Total/NA	Solid	8021B	98607
890-7502-7	BH - 126 (3')	Total/NA	Solid	8021B	98607
890-7502-8	BH - 100 (4')	Total/NA	Solid	8021B	98607
890-7502-9	BH - 131 (3')	Total/NA	Solid	8021B	98607
890-7502-10	BH - 128 (4')	Total/NA	Solid	8021B	98607
890-7502-11	BH - 133 (4')	Total/NA	Solid	8021B	98607
890-7502-12	BH - 102 (4')	Total/NA	Solid	8021B	98607
890-7502-13	BH - 132 (4')	Total/NA	Solid	8021B	98607
890-7502-14	BH - 114 (3')	Total/NA	Solid	8021B	98607
890-7502-15	BH - 117 (3')	Total/NA	Solid	8021B	98607
890-7502-16	BH - 115 (3')	Total/NA	Solid	8021B	98607
890-7502-17	BH - 107 (4')	Total/NA	Solid	8021B	98607
890-7502-18	BH - 105 (4')	Total/NA	Solid	8021B	98607
890-7502-19	BH - 116 (3')	Total/NA	Solid	8021B	98607
890-7502-20	BH - 130 (3')	Total/NA	Solid	8021B	98607
890-7502-21	BH - 129 (4')	Total/NA	Solid	8021B	98607
MB 880-98607/5-A	Method Blank	Total/NA	Solid	8021B	98607
LCS 880-98607/1-A	Lab Control Sample	Total/NA	Solid	8021B	98607
LCSD 880-98607/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98607
890-7502-3 MS	BH - 122 (3')	Total/NA	Solid	8021B	98607
890-7502-3 MSD	BH - 122 (3')	Total/NA	Solid	8021B	98607

Prep Batch: 98607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Total/NA	Solid	5035	
890-7502-4	BH - 123 (3')	Total/NA	Solid	5035	
890-7502-5	BH - 124 (3')	Total/NA	Solid	5035	
890-7502-6	BH - 125 (3')	Total/NA	Solid	5035	
890-7502-7	BH - 126 (3')	Total/NA	Solid	5035	
890-7502-8	BH - 100 (4')	Total/NA	Solid	5035	
890-7502-9	BH - 131 (3')	Total/NA	Solid	5035	
890-7502-10	BH - 128 (4')	Total/NA	Solid	5035	
890-7502-11	BH - 133 (4')	Total/NA	Solid	5035	
890-7502-12	BH - 102 (4')	Total/NA	Solid	5035	
890-7502-13	BH - 132 (4')	Total/NA	Solid	5035	
890-7502-14	BH - 114 (3')	Total/NA	Solid	5035	
890-7502-15	BH - 117 (3')	Total/NA	Solid	5035	
890-7502-16	BH - 115 (3')	Total/NA	Solid	5035	
890-7502-17	BH - 107 (4')	Total/NA	Solid	5035	
890-7502-18	BH - 105 (4')	Total/NA	Solid	5035	
890-7502-19	BH - 116 (3')	Total/NA	Solid	5035	
890-7502-20	BH - 130 (3')	Total/NA	Solid	5035	
890-7502-21	BH - 129 (4')	Total/NA	Solid	5035	
MB 880-98607/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98607/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98607/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7502-3 MS	BH - 122 (3')	Total/NA	Solid	5035	
890-7502-3 MSD	BH - 122 (3')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 98805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Total/NA	Solid	Total BTEX	
890-7502-4	BH - 123 (3')	Total/NA	Solid	Total BTEX	
890-7502-5	BH - 124 (3')	Total/NA	Solid	Total BTEX	
890-7502-6	BH - 125 (3')	Total/NA	Solid	Total BTEX	
890-7502-7	BH - 126 (3')	Total/NA	Solid	Total BTEX	
890-7502-8	BH - 100 (4')	Total/NA	Solid	Total BTEX	
890-7502-9	BH - 131 (3')	Total/NA	Solid	Total BTEX	
890-7502-10	BH - 128 (4')	Total/NA	Solid	Total BTEX	
890-7502-11	BH - 133 (4')	Total/NA	Solid	Total BTEX	
890-7502-12	BH - 102 (4')	Total/NA	Solid	Total BTEX	
890-7502-13	BH - 132 (4')	Total/NA	Solid	Total BTEX	
890-7502-14	BH - 114 (3')	Total/NA	Solid	Total BTEX	
890-7502-15	BH - 117 (3')	Total/NA	Solid	Total BTEX	
890-7502-16	BH - 115 (3')	Total/NA	Solid	Total BTEX	
890-7502-17	BH - 107 (4')	Total/NA	Solid	Total BTEX	
890-7502-18	BH - 105 (4')	Total/NA	Solid	Total BTEX	
890-7502-19	BH - 116 (3')	Total/NA	Solid	Total BTEX	
890-7502-20	BH - 130 (3')	Total/NA	Solid	Total BTEX	
890-7502-21	BH - 129 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Total/NA	Solid	8015NM Prep	
890-7502-4	BH - 123 (3')	Total/NA	Solid	8015NM Prep	
890-7502-5	BH - 124 (3')	Total/NA	Solid	8015NM Prep	
890-7502-6	BH - 125 (3')	Total/NA	Solid	8015NM Prep	
890-7502-7	BH - 126 (3')	Total/NA	Solid	8015NM Prep	
890-7502-8	BH - 100 (4')	Total/NA	Solid	8015NM Prep	
890-7502-9	BH - 131 (3')	Total/NA	Solid	8015NM Prep	
890-7502-10	BH - 128 (4')	Total/NA	Solid	8015NM Prep	
890-7502-11	BH - 133 (4')	Total/NA	Solid	8015NM Prep	
890-7502-12	BH - 102 (4')	Total/NA	Solid	8015NM Prep	
890-7502-13	BH - 132 (4')	Total/NA	Solid	8015NM Prep	
890-7502-14	BH - 114 (3')	Total/NA	Solid	8015NM Prep	
890-7502-15	BH - 117 (3')	Total/NA	Solid	8015NM Prep	
890-7502-16	BH - 115 (3')	Total/NA	Solid	8015NM Prep	
890-7502-17	BH - 107 (4')	Total/NA	Solid	8015NM Prep	
890-7502-18	BH - 105 (4')	Total/NA	Solid	8015NM Prep	
890-7502-19	BH - 116 (3')	Total/NA	Solid	8015NM Prep	
890-7502-20	BH - 130 (3')	Total/NA	Solid	8015NM Prep	
890-7502-21	BH - 129 (4')	Total/NA	Solid	8015NM Prep	
MB 880-98769/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98769/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7502-3 MS	BH - 122 (3')	Total/NA	Solid	8015NM Prep	
890-7502-3 MSD	BH - 122 (3')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 98815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Total/NA	Solid	8015B NM	98769
890-7502-4	BH - 123 (3')	Total/NA	Solid	8015B NM	98769
890-7502-5	BH - 124 (3')	Total/NA	Solid	8015B NM	98769
890-7502-6	BH - 125 (3')	Total/NA	Solid	8015B NM	98769
890-7502-7	BH - 126 (3')	Total/NA	Solid	8015B NM	98769
890-7502-8	BH - 100 (4')	Total/NA	Solid	8015B NM	98769
890-7502-9	BH - 131 (3')	Total/NA	Solid	8015B NM	98769
890-7502-10	BH - 128 (4')	Total/NA	Solid	8015B NM	98769
890-7502-11	BH - 133 (4')	Total/NA	Solid	8015B NM	98769
890-7502-12	BH - 102 (4')	Total/NA	Solid	8015B NM	98769
890-7502-13	BH - 132 (4')	Total/NA	Solid	8015B NM	98769
890-7502-14	BH - 114 (3')	Total/NA	Solid	8015B NM	98769
890-7502-15	BH - 117 (3')	Total/NA	Solid	8015B NM	98769
890-7502-16	BH - 115 (3')	Total/NA	Solid	8015B NM	98769
890-7502-17	BH - 107 (4')	Total/NA	Solid	8015B NM	98769
890-7502-18	BH - 105 (4')	Total/NA	Solid	8015B NM	98769
890-7502-19	BH - 116 (3')	Total/NA	Solid	8015B NM	98769
890-7502-20	BH - 130 (3')	Total/NA	Solid	8015B NM	98769
890-7502-21	BH - 129 (4')	Total/NA	Solid	8015B NM	98769
MB 880-98769/1-A	Method Blank	Total/NA	Solid	8015B NM	98769
LCS 880-98769/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98769
LCSD 880-98769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98769
890-7502-3 MS	BH - 122 (3')	Total/NA	Solid	8015B NM	98769
890-7502-3 MSD	BH - 122 (3')	Total/NA	Solid	8015B NM	98769

Analysis Batch: 98928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Total/NA	Solid	8015 NM	
890-7502-4	BH - 123 (3')	Total/NA	Solid	8015 NM	
890-7502-5	BH - 124 (3')	Total/NA	Solid	8015 NM	
890-7502-6	BH - 125 (3')	Total/NA	Solid	8015 NM	
890-7502-7	BH - 126 (3')	Total/NA	Solid	8015 NM	
890-7502-8	BH - 100 (4')	Total/NA	Solid	8015 NM	
890-7502-9	BH - 131 (3')	Total/NA	Solid	8015 NM	
890-7502-10	BH - 128 (4')	Total/NA	Solid	8015 NM	
890-7502-11	BH - 133 (4')	Total/NA	Solid	8015 NM	
890-7502-12	BH - 102 (4')	Total/NA	Solid	8015 NM	
890-7502-13	BH - 132 (4')	Total/NA	Solid	8015 NM	
890-7502-14	BH - 114 (3')	Total/NA	Solid	8015 NM	
890-7502-15	BH - 117 (3')	Total/NA	Solid	8015 NM	
890-7502-16	BH - 115 (3')	Total/NA	Solid	8015 NM	
890-7502-17	BH - 107 (4')	Total/NA	Solid	8015 NM	
890-7502-18	BH - 105 (4')	Total/NA	Solid	8015 NM	
890-7502-19	BH - 116 (3')	Total/NA	Solid	8015 NM	
890-7502-20	BH - 130 (3')	Total/NA	Solid	8015 NM	
890-7502-21	BH - 129 (4')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

HPLC/IC

Leach Batch: 98557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Soluble	Solid	DI Leach	
890-7502-4	BH - 123 (3')	Soluble	Solid	DI Leach	
890-7502-5	BH - 124 (3')	Soluble	Solid	DI Leach	
890-7502-6	BH - 125 (3')	Soluble	Solid	DI Leach	
890-7502-7	BH - 126 (3')	Soluble	Solid	DI Leach	
890-7502-8	BH - 100 (4')	Soluble	Solid	DI Leach	
890-7502-9	BH - 131 (3')	Soluble	Solid	DI Leach	
890-7502-10	BH - 128 (4')	Soluble	Solid	DI Leach	
890-7502-11	BH - 133 (4')	Soluble	Solid	DI Leach	
890-7502-12	BH - 102 (4')	Soluble	Solid	DI Leach	
890-7502-13	BH - 132 (4')	Soluble	Solid	DI Leach	
890-7502-14	BH - 114 (3')	Soluble	Solid	DI Leach	
890-7502-15	BH - 117 (3')	Soluble	Solid	DI Leach	
890-7502-16	BH - 115 (3')	Soluble	Solid	DI Leach	
890-7502-17	BH - 107 (4')	Soluble	Solid	DI Leach	
890-7502-18	BH - 105 (4')	Soluble	Solid	DI Leach	
890-7502-19	BH - 116 (3')	Soluble	Solid	DI Leach	
890-7502-20	BH - 130 (3')	Soluble	Solid	DI Leach	
890-7502-21	BH - 129 (4')	Soluble	Solid	DI Leach	
MB 880-98557/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98557/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98557/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7502-3 MS	BH - 122 (3')	Soluble	Solid	DI Leach	
890-7502-3 MSD	BH - 122 (3')	Soluble	Solid	DI Leach	
890-7502-13 MS	BH - 132 (4')	Soluble	Solid	DI Leach	
890-7502-13 MSD	BH - 132 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 98649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3	BH - 122 (3')	Soluble	Solid	300.0	98557
890-7502-4	BH - 123 (3')	Soluble	Solid	300.0	98557
890-7502-5	BH - 124 (3')	Soluble	Solid	300.0	98557
890-7502-6	BH - 125 (3')	Soluble	Solid	300.0	98557
890-7502-7	BH - 126 (3')	Soluble	Solid	300.0	98557
890-7502-8	BH - 100 (4')	Soluble	Solid	300.0	98557
890-7502-9	BH - 131 (3')	Soluble	Solid	300.0	98557
890-7502-10	BH - 128 (4')	Soluble	Solid	300.0	98557
890-7502-11	BH - 133 (4')	Soluble	Solid	300.0	98557
890-7502-12	BH - 102 (4')	Soluble	Solid	300.0	98557
890-7502-13	BH - 132 (4')	Soluble	Solid	300.0	98557
890-7502-14	BH - 114 (3')	Soluble	Solid	300.0	98557
890-7502-15	BH - 117 (3')	Soluble	Solid	300.0	98557
890-7502-16	BH - 115 (3')	Soluble	Solid	300.0	98557
890-7502-17	BH - 107 (4')	Soluble	Solid	300.0	98557
890-7502-18	BH - 105 (4')	Soluble	Solid	300.0	98557
890-7502-19	BH - 116 (3')	Soluble	Solid	300.0	98557
890-7502-20	BH - 130 (3')	Soluble	Solid	300.0	98557
890-7502-21	BH - 129 (4')	Soluble	Solid	300.0	98557
MB 880-98557/1-A	Method Blank	Soluble	Solid	300.0	98557
LCS 880-98557/2-A	Lab Control Sample	Soluble	Solid	300.0	98557
LCSD 880-98557/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98557

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 98649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7502-3 MS	BH - 122 (3')	Soluble	Solid	300.0	98557
890-7502-3 MSD	BH - 122 (3')	Soluble	Solid	300.0	98557
890-7502-13 MS	BH - 132 (4')	Soluble	Solid	300.0	98557
890-7502-13 MSD	BH - 132 (4')	Soluble	Solid	300.0	98557

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 122 (3')

Lab Sample ID: 890-7502-3
Matrix: Solid
Date Collected: 12/16/24 08:10
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 11:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 16:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 16:31	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 12:40	CH	EET MID

Client Sample ID: BH - 123 (3')

Lab Sample ID: 890-7502-4
Matrix: Solid
Date Collected: 12/16/24 08:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 12:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 17:20	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 13:12	CH	EET MID

Client Sample ID: BH - 124 (3')

Lab Sample ID: 890-7502-5
Matrix: Solid
Date Collected: 12/16/24 08:20
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 17:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 17:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 13:18	CH	EET MID

Client Sample ID: BH - 125 (3')

Lab Sample ID: 890-7502-6
Matrix: Solid
Date Collected: 12/16/24 08:25
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 12:50	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 125 (3')

Lab Sample ID: 890-7502-6
Matrix: Solid
Date Collected: 12/16/24 08:25
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98928	12/26/24 17:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 17:52	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 13:24	CH	EET MID

Client Sample ID: BH - 126 (3')

Lab Sample ID: 890-7502-7
Matrix: Solid
Date Collected: 12/16/24 08:30
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 18:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 18:08	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 13:30	CH	EET MID

Client Sample ID: BH - 100 (4')

Lab Sample ID: 890-7502-8
Matrix: Solid
Date Collected: 12/16/24 08:35
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 13:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 18:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 18:25	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 15:14	CH	EET MID

Client Sample ID: BH - 131 (3')

Lab Sample ID: 890-7502-9
Matrix: Solid
Date Collected: 12/16/24 08:40
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 18:41	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 131 (3')

Lab Sample ID: 890-7502-9
Matrix: Solid
Date Collected: 12/16/24 08:40
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 15:20	CH	EET MID

Client Sample ID: BH - 128 (4')

Lab Sample ID: 890-7502-10
Matrix: Solid
Date Collected: 12/16/24 08:45
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 14:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 18:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 18:58	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 15:25	CH	EET MID

Client Sample ID: BH - 133 (4')

Lab Sample ID: 890-7502-11
Matrix: Solid
Date Collected: 12/16/24 09:00
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 14:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 19:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 19:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 15:31	CH	EET MID

Client Sample ID: BH - 102 (4')

Lab Sample ID: 890-7502-12
Matrix: Solid
Date Collected: 12/16/24 09:05
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 19:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 19:30	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98649	12/23/24 15:37	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 132 (4')

Lab Sample ID: 890-7502-13
Matrix: Solid
Date Collected: 12/16/24 09:10
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 20:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 20:01	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 15:43	CH	EET MID

Client Sample ID: BH - 114 (3')

Lab Sample ID: 890-7502-14
Matrix: Solid
Date Collected: 12/16/24 09:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 16:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 20:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 20:18	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 17:32	CH	EET MID

Client Sample ID: BH - 117 (3')

Lab Sample ID: 890-7502-15
Matrix: Solid
Date Collected: 12/16/24 09:20
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 20:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 20:33	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 17:38	CH	EET MID

Client Sample ID: BH - 115 (3')

Lab Sample ID: 890-7502-16
Matrix: Solid
Date Collected: 12/16/24 09:25
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 17:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 17:28	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 115 (3')

Lab Sample ID: 890-7502-16
Matrix: Solid
Date Collected: 12/16/24 09:25
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98928	12/26/24 20:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 20:49	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 17:56	CH	EET MID

Client Sample ID: BH - 107 (4')

Lab Sample ID: 890-7502-17
Matrix: Solid
Date Collected: 12/16/24 09:30
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 21:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 21:06	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	98649	12/23/24 18:01	CH	EET MID

Client Sample ID: BH - 105 (4')

Lab Sample ID: 890-7502-18
Matrix: Solid
Date Collected: 12/16/24 09:35
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 18:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 21:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 21:21	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98649	12/23/24 18:07	CH	EET MID

Client Sample ID: BH - 116 (3')

Lab Sample ID: 890-7502-19
Matrix: Solid
Date Collected: 12/16/24 09:40
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 21:37	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Client Sample ID: BH - 116 (3')

Lab Sample ID: 890-7502-19

Date Collected: 12/16/24 09:40
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 18:13	CH	EET MID

Client Sample ID: BH - 130 (3')

Lab Sample ID: 890-7502-20

Date Collected: 12/16/24 09:45
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 18:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 21:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 21:53	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 18:19	CH	EET MID

Client Sample ID: BH - 129 (4')

Lab Sample ID: 890-7502-21

Date Collected: 12/16/24 10:00
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	98607	12/23/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98599	12/23/24 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98805	12/23/24 19:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			98928	12/26/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 22:09	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 18:24	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7502-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7502-3	BH - 122 (3')	Solid	12/16/24 08:10	12/20/24 13:45
890-7502-4	BH - 123 (3')	Solid	12/16/24 08:15	12/20/24 13:45
890-7502-5	BH - 124 (3')	Solid	12/16/24 08:20	12/20/24 13:45
890-7502-6	BH - 125 (3')	Solid	12/16/24 08:25	12/20/24 13:45
890-7502-7	BH - 126 (3')	Solid	12/16/24 08:30	12/20/24 13:45
890-7502-8	BH - 100 (4')	Solid	12/16/24 08:35	12/20/24 13:45
890-7502-9	BH - 131 (3')	Solid	12/16/24 08:40	12/20/24 13:45
890-7502-10	BH - 128 (4')	Solid	12/16/24 08:45	12/20/24 13:45
890-7502-11	BH - 133 (4')	Solid	12/16/24 09:00	12/20/24 13:45
890-7502-12	BH - 102 (4')	Solid	12/16/24 09:05	12/20/24 13:45
890-7502-13	BH - 132 (4')	Solid	12/16/24 09:10	12/20/24 13:45
890-7502-14	BH - 114 (3')	Solid	12/16/24 09:15	12/20/24 13:45
890-7502-15	BH - 117 (3')	Solid	12/16/24 09:20	12/20/24 13:45
890-7502-16	BH - 115 (3')	Solid	12/16/24 09:25	12/20/24 13:45
890-7502-17	BH - 107 (4')	Solid	12/16/24 09:30	12/20/24 13:45
890-7502-18	BH - 105 (4')	Solid	12/16/24 09:35	12/20/24 13:45
890-7502-19	BH - 116 (3')	Solid	12/16/24 09:40	12/20/24 13:45
890-7502-20	BH - 130 (3')	Solid	12/16/24 09:45	12/20/24 13:45
890-7502-21	BH - 129 (4')	Solid	12/16/24 10:00	12/20/24 13:45

Page 549 of 1592

Analysis Request of Chain of Custody Record



Page 1 of 1

12/21/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	**Site Manager:**	Brittany Long
Project Name:	Iceman SWD		(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state)	Eddy County, NM	**Project #:**	212C-MD-03085
Invoice to:	Solairs ATTN: Rob Kirk		
Receiving Laboratory:	Eurofins Laboratories	**Sampler Signature:**	Gary Allen
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-119 (3')	12/16/2024	8:00		X				X					X		X												X							
	BH-120 (3')	12/16/2024	8:05		X				X					X		X												X							
	BH-122 (3')	12/16/2024	8:10		X				X					X		X												X							
	BH-123 (3')	12/16/2024	8:15		X				X					X		X												X							
	BH-124 (3')	12/16/2024	8:20		X				X					X		X												X							
	BH-125 (3')	12/16/2024	8:25		X				X					X		X												X							
	BH-126 (3')	12/16/2024	8:30		X				X					X		X												X							
	BH-100 (4')	12/16/2024	8:35		X				X					X		X												X							
	BH-131 (3')	12/16/2024	8:40		X				X					X		X												X							
	BH-128 (4')	12/16/2024	8:45		X				X					X		X												X							

Relinquished by:	Date: 12-20-24	Time: 1342	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/20 Time: 13 45

LAB USE ONLY

Sample Temperature
TNMOC
-0.2
3.4
3.2

REMARKS: Standard TAT

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 42 of 47

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 550 of 1592

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4442.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7502-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/27/2024			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
Preservation Code:													
BH - 122 (3') (890-7502-3)	12/16/24	08:10 Mountain	G	Solid			X	X	X	X	X	1	
BH - 123 (3') (890-7502-4)	12/16/24	08:15 Mountain	G	Solid			X	X	X	X	X	1	
BH - 124 (3') (890-7502-5)	12/16/24	08:20 Mountain	G	Solid			X	X	X	X	X	1	
BH - 125 (3') (890-7502-6)	12/16/24	08:25 Mountain	G	Solid			X	X	X	X	X	1	
BH - 126 (3') (890-7502-7)	12/16/24	08:30 Mountain	G	Solid			X	X	X	X	X	1	
BH - 100 (4') (890-7502-8)	12/16/24	08:35 Mountain	G	Solid			X	X	X	X	X	1	
BH - 131 (3') (890-7502-9)	12/16/24	08:40 Mountain	G	Solid			X	X	X	X	X	1	
BH - 128 (4') (890-7502-10)	12/16/24	08:45 Mountain	G	Solid			X	X	X	X	X	1	
BH - 133 (4') (890-7502-11)	12/16/24	09:00 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/20 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4442.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7502-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/27/2024			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH - 102 (4') (890-7502-12)	12/16/24	09:05 Mountain	G	Solid			X	X	X	X	X	1	
BH - 132 (4') (890-7502-13)	12/16/24	09:10 Mountain	G	Solid			X	X	X	X	X	1	
BH - 114 (3') (890-7502-14)	12/16/24	09:15 Mountain	G	Solid			X	X	X	X	X	1	
BH - 117 (3') (890-7502-15)	12/16/24	09:20 Mountain	G	Solid			X	X	X	X	X	1	
BH - 115 (3') (890-7502-16)	12/16/24	09:25 Mountain	G	Solid			X	X	X	X	X	1	
BH - 107 (4') (890-7502-17)	12/16/24	09:30 Mountain	G	Solid			X	X	X	X	X	1	
BH - 105 (4') (890-7502-18)	12/16/24	09:35 Mountain	G	Solid			X	X	X	X	X	1	
BH - 116 (3') (890-7502-19)	12/16/24	09:40 Mountain	G	Solid			X	X	X	X	X	1	
BH - 130 (3') (890-7502-20)	12/16/24	09:45 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/20 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 551 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
12/27/2024
Page 44 of 47
Released to Imaging: 6/2/2026 11:27:44 AM

Page 552 of 1592

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4442.3
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 3 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7502-1
Address: 1211 W. Florida Ave,	Due Date Requested: 12/27/2024			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH - 129 (4') (890-7502-21)	12/16/24	10:00 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/20 16 3C	Company	Received by: EA	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7502-1
SDG Number: Eddy County NM

Login Number: 7502
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7502-1
SDG Number: Eddy County NM

Login Number: 7502
List Number: 2
Creator: Lee, Randell

List Source: Eurofins Midland
List Creation: 12/23/24 10:09 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/27/2024 11:29:10 AM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7503-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

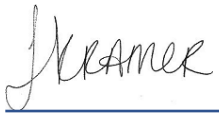
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/27/2024 11:29:10 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 13
QC Sample Results 14
QC Association Summary 20
Lab Chronicle 23
Certification Summary 26
Method Summary 27
Sample Summary 28
Chain of Custody 29
Receipt Checklists 31

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7503-1

Job ID: 890-7503-1 Eurofins Carlsbad

Job Narrative
890-7503-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/20/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 150 (3') (890-7503-1), BH - 166 (3') (890-7503-2), BH - 167 (3') (890-7503-3), BH - 170 (4') (890-7503-4), SW - 33 (890-7503-5), SW - 42 (890-7503-6), SW - 35 (890-7503-7) and SW - 43 (890-7503-8).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98769 and analytical batch 880-98815 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98770 and analytical batch 880-98813 was outside the control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98770 and analytical batch 880-98813 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98813 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-98813/58).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: BH - 150 (3')

Lab Sample ID: 890-7503-1
Matrix: Solid
Date Collected: 12/19/24 08:00
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 12:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 12:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 12:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 12:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 12:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/23/24 09:44*	*12/23/24 12:01*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:44*	*12/23/24 12:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 12:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 22:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:26	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:48	12/26/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/26/24 07:48*	*12/26/24 22:26*	*1*
o-Terphenyl	*113*		*70 - 130*	*12/26/24 07:48*	*12/26/24 22:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.0**		10.0		mg/Kg			12/23/24 18:30	1

Client Sample ID: BH - 166 (3')

Lab Sample ID: 890-7503-2
Matrix: Solid
Date Collected: 12/16/24 08:05
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 12:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 12:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 12:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:44	12/23/24 12:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:44	12/23/24 12:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/23/24 09:44*	*12/23/24 12:22*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 12:22*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: BH - 166 (3')

Lab Sample ID: 890-7503-2
Matrix: Solid
Date Collected: 12/16/24 08:05
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 12:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 00:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/26/24 07:51	12/27/24 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/26/24 07:51	12/27/24 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 00:31	1
Total TPH	<50.0	U F1	50.0		mg/Kg		12/26/24 07:51	12/27/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/26/24 07:51*	*12/27/24 00:31*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/26/24 07:51*	*12/27/24 00:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**345**		10.0		mg/Kg			12/23/24 19:16	1

Client Sample ID: BH - 167 (3')

Lab Sample ID: 890-7503-3
Matrix: Solid
Date Collected: 12/16/24 08:10
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 12:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:44	12/23/24 12:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:44	12/23/24 12:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/23/24 09:44*	*12/23/24 12:42*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 12:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 12:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 01:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 01:17	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: BH - 167 (3')

Lab Sample ID: 890-7503-3
Date Collected: 12/16/24 08:10
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 01:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 01:17	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/26/24 07:51*	*12/27/24 01:17*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/26/24 07:51*	*12/27/24 01:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**312**		9.96		mg/Kg			12/23/24 19:34	1

Client Sample ID: BH - 170 (4')

Lab Sample ID: 890-7503-4
Date Collected: 12/16/24 08:15
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 13:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 13:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 13:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 13:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 13:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/23/24 09:44*	*12/23/24 13:03*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/23/24 09:44*	*12/23/24 13:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 13:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 01:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 01:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 01:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 01:32	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/26/24 07:51*	*12/27/24 01:32*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/26/24 07:51*	*12/27/24 01:32*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: BH - 170 (4')

Lab Sample ID: 890-7503-4
Matrix: Solid
Date Collected: 12/16/24 08:15
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		10.0		mg/Kg			12/23/24 19:40	1

Client Sample ID: SW - 33

Lab Sample ID: 890-7503-5
Matrix: Solid
Date Collected: 12/16/24 08:20
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 13:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 13:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 13:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 13:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 13:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/23/24 09:44*	*12/23/24 13:23*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:44*	*12/23/24 13:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 13:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 01:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 01:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 01:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 01:48	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/26/24 07:51*	*12/27/24 01:48*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/26/24 07:51*	*12/27/24 01:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383		9.94		mg/Kg			12/23/24 19:45	1

Client Sample ID: SW - 42

Lab Sample ID: 890-7503-6
Matrix: Solid
Date Collected: 12/16/24 08:25
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 13:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 13:44	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: SW - 42

Lab Sample ID: 890-7503-6
Matrix: Solid
Date Collected: 12/16/24 08:25
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 13:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:44	12/23/24 13:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:44	12/23/24 13:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/23/24 09:44*	*12/23/24 13:44*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 13:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 13:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 02:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:03	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:03*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**234**		9.90		mg/Kg			12/23/24 19:51	1

Client Sample ID: SW - 35

Lab Sample ID: 890-7503-7
Matrix: Solid
Date Collected: 12/16/24 08:30
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 14:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 14:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 14:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:44	12/23/24 14:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:44	12/23/24 14:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/23/24 09:44*	*12/23/24 14:04*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:44*	*12/23/24 14:04*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: SW - 35

Lab Sample ID: 890-7503-7
Matrix: Solid
Date Collected: 12/16/24 08:30
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 14:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 02:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 02:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 02:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 02:19	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:19*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**404**		9.96		mg/Kg			12/23/24 20:08	1

Client Sample ID: SW - 43

Lab Sample ID: 890-7503-8
Matrix: Solid
Date Collected: 12/16/24 08:35
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 14:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 14:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 14:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:44	12/23/24 14:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:44	12/23/24 14:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/23/24 09:44*	*12/23/24 14:25*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:44*	*12/23/24 14:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 14:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 02:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 02:34	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: SW - 43

Date Collected: 12/16/24 08:35
Date Received: 12/20/24 13:45

Lab Sample ID: 890-7503-8

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 02:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 02:34	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:34*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**278**		9.98		mg/Kg			12/23/24 20:14	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7503-1	BH - 150 (3')	108	105
890-7503-1 MS	BH - 150 (3')	112	104
890-7503-1 MSD	BH - 150 (3')	106	103
890-7503-2	BH - 166 (3')	117	107
890-7503-3	BH - 167 (3')	108	107
890-7503-4	BH - 170 (4')	115	108
890-7503-5	SW - 33	111	106
890-7503-6	SW - 42	119	107
890-7503-7	SW - 35	111	106
890-7503-8	SW - 43	115	106
LCS 880-98622/1-A	Lab Control Sample	109	104
LCSD 880-98622/2-A	Lab Control Sample Dup	106	104
MB 880-98622/5-A	Method Blank	108	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7502-A-3-H MS	Matrix Spike	113	120
890-7502-A-3-I MSD	Matrix Spike Duplicate	110	120
890-7503-1	BH - 150 (3')	106	113
890-7503-2	BH - 166 (3')	84	86
890-7503-2 MS	BH - 166 (3')	74	77
890-7503-2 MSD	BH - 166 (3')	75	78
890-7503-3	BH - 167 (3')	84	84
890-7503-4	BH - 170 (4')	80	80
890-7503-5	SW - 33	86	84
890-7503-6	SW - 42	77	80
890-7503-7	SW - 35	76	76
890-7503-8	SW - 43	78	78
LCS 880-98769/2-A	Lab Control Sample	120	130
LCS 880-98770/2-A	Lab Control Sample	90	90
LCSD 880-98769/3-A	Lab Control Sample Dup	120	129
LCSD 880-98770/3-A	Lab Control Sample Dup	90	91
MB 880-98769/1-A	Method Blank	89	93
MB 880-98770/1-A	Method Blank	66 S1-	65 S1-

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98622/5-A
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/23/24 09:44*	*12/23/24 11:40*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/23/24 09:44*	*12/23/24 11:40*	*1*

Lab Sample ID: LCS 880-98622/1-A
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.1075		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2167		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-98622/2-A
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	0	35
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2158		mg/Kg		108	70 - 130	0	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-7503-1 MS
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: BH - 150 (3')
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1056		mg/Kg		106	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09781		mg/Kg		98	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7503-1 MS
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: BH - 150 (3')
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0996	0.1013		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1992		mg/Kg		100	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1008		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-7503-1 MSD
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: BH - 150 (3')
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1067		mg/Kg		106	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.09706		mg/Kg		96	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1019		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1973		mg/Kg		98	70 - 130	1	35
o-Xylene	<0.00199	U	0.101	0.09961		mg/Kg		99	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-98769/1-A
Matrix: Solid
Analysis Batch: 98815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:48	12/26/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/26/24 07:48*	*12/26/24 11:27*	*1*
o-Terphenyl	*93*		*70 - 130*	*12/26/24 07:48*	*12/26/24 11:27*	*1*

Lab Sample ID: LCS 880-98769/2-A
Matrix: Solid
Analysis Batch: 98815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1149		mg/Kg		115	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-98769/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1158		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Lab Sample ID: LCSD 880-98769/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1135		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1152		mg/Kg		115	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*129*		*70 - 130*

Lab Sample ID: 890-7502-A-3-H MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	660.2	F1	mg/Kg		66	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	783.9		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: 890-7502-A-3-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98815 — **Prep Batch: 98769**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	643.7	F1	mg/Kg		65	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	787.2		mg/Kg		79	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-98770/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*12/26/24 07:51*	*12/26/24 23:45*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*12/26/24 07:51*	*12/26/24 23:45*	*1*

Lab Sample ID: LCS 880-98770/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	923.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	793.9		mg/Kg		79	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-98770/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	918.4		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	812.2		mg/Kg		81	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 890-7503-2 MS — **Client Sample ID: BH - 166 (3')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	525.5	F1	mg/Kg		53	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	558.3	F1	mg/Kg		56	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7503-2 MS
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: BH - 166 (3')
Prep Type: Total/NA
Prep Batch: 98770

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 890-7503-2 MSD
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: BH - 166 (3')
Prep Type: Total/NA
Prep Batch: 98770

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	544.1	F1	mg/Kg		54	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	567.3	F1	mg/Kg		57	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	78		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98557/1-A
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/23/24 12:22	1

Lab Sample ID: LCS 880-98557/2-A
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.4		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-98557/3-A
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	234.5		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-7502-A-13-B MS
Matrix: Solid
Analysis Batch: 98649

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	60.0		248	326.4		mg/Kg		108	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7502-A-13-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.0		248	325.9		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-98558/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/23/24 18:59	1

Lab Sample ID: LCS 880-98558/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.3		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-98558/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98664

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	235.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-7503-2 MS — **Client Sample ID: BH - 166 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	345		251	605.2		mg/Kg		104	90 - 110

Lab Sample ID: 890-7503-2 MSD — **Client Sample ID: BH - 166 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	345		251	605.3		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 98601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Total/NA	Solid	8021B	98622
890-7503-2	BH - 166 (3')	Total/NA	Solid	8021B	98622
890-7503-3	BH - 167 (3')	Total/NA	Solid	8021B	98622
890-7503-4	BH - 170 (4')	Total/NA	Solid	8021B	98622
890-7503-5	SW - 33	Total/NA	Solid	8021B	98622
890-7503-6	SW - 42	Total/NA	Solid	8021B	98622
890-7503-7	SW - 35	Total/NA	Solid	8021B	98622
890-7503-8	SW - 43	Total/NA	Solid	8021B	98622
MB 880-98622/5-A	Method Blank	Total/NA	Solid	8021B	98622
LCS 880-98622/1-A	Lab Control Sample	Total/NA	Solid	8021B	98622
LCSD 880-98622/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98622
890-7503-1 MS	BH - 150 (3')	Total/NA	Solid	8021B	98622
890-7503-1 MSD	BH - 150 (3')	Total/NA	Solid	8021B	98622

Prep Batch: 98622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Total/NA	Solid	5035	
890-7503-2	BH - 166 (3')	Total/NA	Solid	5035	
890-7503-3	BH - 167 (3')	Total/NA	Solid	5035	
890-7503-4	BH - 170 (4')	Total/NA	Solid	5035	
890-7503-5	SW - 33	Total/NA	Solid	5035	
890-7503-6	SW - 42	Total/NA	Solid	5035	
890-7503-7	SW - 35	Total/NA	Solid	5035	
890-7503-8	SW - 43	Total/NA	Solid	5035	
MB 880-98622/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98622/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98622/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7503-1 MS	BH - 150 (3')	Total/NA	Solid	5035	
890-7503-1 MSD	BH - 150 (3')	Total/NA	Solid	5035	

Analysis Batch: 98820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Total/NA	Solid	Total BTEX	
890-7503-2	BH - 166 (3')	Total/NA	Solid	Total BTEX	
890-7503-3	BH - 167 (3')	Total/NA	Solid	Total BTEX	
890-7503-4	BH - 170 (4')	Total/NA	Solid	Total BTEX	
890-7503-5	SW - 33	Total/NA	Solid	Total BTEX	
890-7503-6	SW - 42	Total/NA	Solid	Total BTEX	
890-7503-7	SW - 35	Total/NA	Solid	Total BTEX	
890-7503-8	SW - 43	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Total/NA	Solid	8015NM Prep	
MB 880-98769/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98769/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7502-A-3-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7502-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

GC Semi VOA

Prep Batch: 98770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-2	BH - 166 (3')	Total/NA	Solid	8015NM Prep	
890-7503-3	BH - 167 (3')	Total/NA	Solid	8015NM Prep	
890-7503-4	BH - 170 (4')	Total/NA	Solid	8015NM Prep	
890-7503-5	SW - 33	Total/NA	Solid	8015NM Prep	
890-7503-6	SW - 42	Total/NA	Solid	8015NM Prep	
890-7503-7	SW - 35	Total/NA	Solid	8015NM Prep	
890-7503-8	SW - 43	Total/NA	Solid	8015NM Prep	
MB 880-98770/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98770/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7503-2 MS	BH - 166 (3')	Total/NA	Solid	8015NM Prep	
890-7503-2 MSD	BH - 166 (3')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-2	BH - 166 (3')	Total/NA	Solid	8015B NM	98770
890-7503-3	BH - 167 (3')	Total/NA	Solid	8015B NM	98770
890-7503-4	BH - 170 (4')	Total/NA	Solid	8015B NM	98770
890-7503-5	SW - 33	Total/NA	Solid	8015B NM	98770
890-7503-6	SW - 42	Total/NA	Solid	8015B NM	98770
890-7503-7	SW - 35	Total/NA	Solid	8015B NM	98770
890-7503-8	SW - 43	Total/NA	Solid	8015B NM	98770
MB 880-98770/1-A	Method Blank	Total/NA	Solid	8015B NM	98770
LCS 880-98770/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98770
LCSD 880-98770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98770
890-7503-2 MS	BH - 166 (3')	Total/NA	Solid	8015B NM	98770
890-7503-2 MSD	BH - 166 (3')	Total/NA	Solid	8015B NM	98770

Analysis Batch: 98815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Total/NA	Solid	8015B NM	98769
MB 880-98769/1-A	Method Blank	Total/NA	Solid	8015B NM	98769
LCS 880-98769/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98769
LCSD 880-98769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98769
890-7502-A-3-H MS	Matrix Spike	Total/NA	Solid	8015B NM	98769
890-7502-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98769

Analysis Batch: 98929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Total/NA	Solid	8015 NM	
890-7503-2	BH - 166 (3')	Total/NA	Solid	8015 NM	
890-7503-3	BH - 167 (3')	Total/NA	Solid	8015 NM	
890-7503-4	BH - 170 (4')	Total/NA	Solid	8015 NM	
890-7503-5	SW - 33	Total/NA	Solid	8015 NM	
890-7503-6	SW - 42	Total/NA	Solid	8015 NM	
890-7503-7	SW - 35	Total/NA	Solid	8015 NM	
890-7503-8	SW - 43	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

HPLC/IC

Leach Batch: 98557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Soluble	Solid	DI Leach	
MB 880-98557/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98557/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98557/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7502-A-13-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7502-A-13-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 98558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-2	BH - 166 (3')	Soluble	Solid	DI Leach	
890-7503-3	BH - 167 (3')	Soluble	Solid	DI Leach	
890-7503-4	BH - 170 (4')	Soluble	Solid	DI Leach	
890-7503-5	SW - 33	Soluble	Solid	DI Leach	
890-7503-6	SW - 42	Soluble	Solid	DI Leach	
890-7503-7	SW - 35	Soluble	Solid	DI Leach	
890-7503-8	SW - 43	Soluble	Solid	DI Leach	
MB 880-98558/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98558/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98558/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7503-2 MS	BH - 166 (3')	Soluble	Solid	DI Leach	
890-7503-2 MSD	BH - 166 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 98649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-1	BH - 150 (3')	Soluble	Solid	300.0	98557
MB 880-98557/1-A	Method Blank	Soluble	Solid	300.0	98557
LCS 880-98557/2-A	Lab Control Sample	Soluble	Solid	300.0	98557
LCSD 880-98557/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98557
890-7502-A-13-B MS	Matrix Spike	Soluble	Solid	300.0	98557
890-7502-A-13-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98557

Analysis Batch: 98664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7503-2	BH - 166 (3')	Soluble	Solid	300.0	98558
890-7503-3	BH - 167 (3')	Soluble	Solid	300.0	98558
890-7503-4	BH - 170 (4')	Soluble	Solid	300.0	98558
890-7503-5	SW - 33	Soluble	Solid	300.0	98558
890-7503-6	SW - 42	Soluble	Solid	300.0	98558
890-7503-7	SW - 35	Soluble	Solid	300.0	98558
890-7503-8	SW - 43	Soluble	Solid	300.0	98558
MB 880-98558/1-A	Method Blank	Soluble	Solid	300.0	98558
LCS 880-98558/2-A	Lab Control Sample	Soluble	Solid	300.0	98558
LCSD 880-98558/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98558
890-7503-2 MS	BH - 166 (3')	Soluble	Solid	300.0	98558
890-7503-2 MSD	BH - 166 (3')	Soluble	Solid	300.0	98558

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: BH - 150 (3')

Lab Sample ID: 890-7503-1
Matrix: Solid
Date Collected: 12/19/24 08:00
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			98929	12/26/24 22:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98769	12/26/24 07:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98815	12/26/24 22:26	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98557	12/21/24 14:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98649	12/23/24 18:30	CH	EET MID

Client Sample ID: BH - 166 (3')

Lab Sample ID: 890-7503-2
Matrix: Solid
Date Collected: 12/16/24 08:05
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			98929	12/27/24 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 00:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 19:16	CH	EET MID

Client Sample ID: BH - 167 (3')

Lab Sample ID: 890-7503-3
Matrix: Solid
Date Collected: 12/16/24 08:10
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 12:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			98929	12/27/24 01:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 01:17	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 19:34	CH	EET MID

Client Sample ID: BH - 170 (4')

Lab Sample ID: 890-7503-4
Matrix: Solid
Date Collected: 12/16/24 08:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 13:03	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: BH - 170 (4')

Lab Sample ID: 890-7503-4
Date Collected: 12/16/24 08:15
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98929	12/27/24 01:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 01:32	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 19:40	CH	EET MID

Client Sample ID: SW - 33

Lab Sample ID: 890-7503-5
Date Collected: 12/16/24 08:20
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 13:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			98929	12/27/24 01:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 01:48	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 19:45	CH	EET MID

Client Sample ID: SW - 42

Lab Sample ID: 890-7503-6
Date Collected: 12/16/24 08:25
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 13:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			98929	12/27/24 02:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 02:03	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 19:51	CH	EET MID

Client Sample ID: SW - 35

Lab Sample ID: 890-7503-7
Date Collected: 12/16/24 08:30
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 14:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			98929	12/27/24 02:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 02:19	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Client Sample ID: SW - 35

Date Collected: 12/16/24 08:30
Date Received: 12/20/24 13:45

Lab Sample ID: 890-7503-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 20:08	CH	EET MID

Client Sample ID: SW - 43

Date Collected: 12/16/24 08:35
Date Received: 12/20/24 13:45

Lab Sample ID: 890-7503-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98820	12/23/24 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			98929	12/27/24 02:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 02:34	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 20:14	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7503-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7503-1	BH - 150 (3')	Solid	12/19/24 08:00	12/20/24 13:45
890-7503-2	BH - 166 (3')	Solid	12/16/24 08:05	12/20/24 13:45
890-7503-3	BH - 167 (3')	Solid	12/16/24 08:10	12/20/24 13:45
890-7503-4	BH - 170 (4')	Solid	12/16/24 08:15	12/20/24 13:45
890-7503-5	SW - 33	Solid	12/16/24 08:20	12/20/24 13:45
890-7503-6	SW - 42	Solid	12/16/24 08:25	12/20/24 13:45
890-7503-7	SW - 35	Solid	12/16/24 08:30	12/20/24 13:45
890-7503-8	SW - 43	Solid	12/16/24 08:35	12/20/24 13:45

Page 583 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7503 Chain of Custody

12/27/2024

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance			Hold
	BH-150 (3')	12/19/2024	8:00		X				X					X		X													X								
	BH-166 (3')	12/16/2024	8:05		X				X					X		X													X								
	BH-167 (3')	12/16/2024	8:10		X				X					X		X													X								
	BH-170 (4')	12/16/2024	8:15		X				X					X		X													X								
	SW-33	12/16/2024	8:20		X				X					X		X													X								
	SW-42	12/16/2024	8:25		X				X					X		X													X								
	SW-35	12/16/2024	8:30		X				X					X		X													X								
	SW-43	12/16/2024	8:35		X				X					X		X													X								

Relinquished by: Date: 12-20-24 Time: 1342 — Received by: Date: 12/20 Time: 1345

Relinquished by: Date: Time: — Received by: Date: Time:

Relinquished by: Date: Time: — Received by: Date: Time:

LAB USE ONLY

Sample Temperature
TNMC07
-0.2
3.4
3.2

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4443.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7503-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/27/2024			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH - 150 (3') (890-7503-1)	12/19/24	08:00 Mountain	G	Solid			X	X	X	X	X	1	
BH - 166 (3') (890-7503-2)	12/16/24	08:05 Mountain	G	Solid			X	X	X	X	X	1	
BH - 167 (3') (890-7503-3)	12/16/24	08:10 Mountain	G	Solid			X	X	X	X	X	1	
BH - 170 (4') (890-7503-4)	12/16/24	08:15 Mountain	G	Solid			X	X	X	X	X	1	
SW - 33 (890-7503-5)	12/16/24	08:20 Mountain	G	Solid			X	X	X	X	X	1	
SW - 42 (890-7503-6)	12/16/24	08:25 Mountain	G	Solid			X	X	X	X	X	1	
SW - 35 (890-7503-7)	12/16/24	08:30 Mountain	G	Solid			X	X	X	X	X	1	
SW - 43 (890-7503-8)	12/16/24	08:35 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 12/20 1630	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 584 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
12/27/2024
Page 30 of 32
Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7503-1
SDG Number: Eddy County NM

Login Number: 7503
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7503-1
SDG Number: Eddy County NM

Login Number: 7503
List Number: 2
Creator: Lee, Randell

List Source: Eurofins Midland
List Creation: 12/23/24 10:11 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/27/2024 11:29:13 AM

JOB DESCRIPTION

Iceman SWD
212C - MD - 03085

JOB NUMBER

890-7504-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

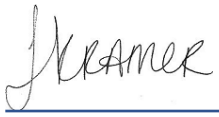
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/27/2024 11:29:13 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7504-1
SDG: 212C - MD - 03085

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 19
QC Sample Results 21
QC Association Summary 27
Lab Chronicle 31
Certification Summary 36
Method Summary 37
Sample Summary 38
Chain of Custody 39
Receipt Checklists 43

Eurofins Carlsbad
12/27/2024

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7504-1

Job ID: 890-7504-1 Eurofins Carlsbad

Job Narrative
890-7504-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/20/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 156 (3') (890-7504-1), BH - 153 (3') (890-7504-2), BH - 165 (3') (890-7504-3), BH - 159 (3') (890-7504-4), BH - 160 (3') (890-7504-5), BH - 161 (3') (890-7504-6), BH - 153 (3') (890-7504-7), BH - 168 (3') (890-7504-8), BH - 169 (3') (890-7504-9), BH - 164 (3') (890-7504-10), BH - 152 (3') (890-7504-11), BH - 158 (3') (890-7504-12), BH - 151 (3') (890-7504-13), BH - 157 (3') (890-7504-14) and BH - 154 (3') (890-7504-15).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98625 and analytical batch 880-98600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98770 and 880-98771 and analytical batch 880-98813 was outside the control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98770 and 880-98771 and analytical batch 880-98813 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98813 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-98813/21).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98813 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-98813/58).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98559 and analytical batch 880-98688 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7504-1

Job ID: 890-7504-1 (Continued)

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 156 (3')

Lab Sample ID: 890-7504-1
Date Collected: 12/18/24 08:00
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		12/23/24 09:52	12/23/24 12:03	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/23/24 09:52	12/23/24 12:03	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		12/23/24 09:52	12/23/24 12:03	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/23/24 09:52	12/23/24 12:03	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		12/23/24 09:52	12/23/24 12:03	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		12/23/24 09:52	12/23/24 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/23/24 09:52*	*12/23/24 12:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/23/24 09:52*	*12/23/24 12:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 12:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 02:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:50	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:50*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/26/24 07:51*	*12/27/24 02:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		10.1		mg/Kg			12/23/24 20:20	1

Client Sample ID: BH - 153 (3')

Lab Sample ID: 890-7504-2
Date Collected: 12/18/24 08:05
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 12:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 12:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 12:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:52	12/23/24 12:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:52	12/23/24 12:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/23/24 09:52*	*12/23/24 12:24*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/23/24 09:52*	*12/23/24 12:24*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 153 (3')

Lab Sample ID: 890-7504-2
Date Collected: 12/18/24 08:05
Matrix: Solid
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 12:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 03:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 03:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 03:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 03:05	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/26/24 07:51*	*12/27/24 03:05*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/26/24 07:51*	*12/27/24 03:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.2**		10.1		mg/Kg			12/23/24 20:26	1

Client Sample ID: BH - 165 (3')

Lab Sample ID: 890-7504-3
Date Collected: 12/18/24 08:10
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 12:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 12:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 12:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:52	12/23/24 12:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:52	12/23/24 12:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:52*	*12/23/24 12:44*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/23/24 09:52*	*12/23/24 12:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 12:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 03:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 03:20	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 165 (3')

Lab Sample ID: 890-7504-3
Matrix: Solid
Date Collected: 12/18/24 08:10
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 03:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 03:20	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/26/24 07:51*	*12/27/24 03:20*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/26/24 07:51*	*12/27/24 03:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**294**		9.98		mg/Kg			12/23/24 20:32	1

Client Sample ID: BH - 159 (3')

Lab Sample ID: 890-7504-4
Matrix: Solid
Date Collected: 12/18/24 08:15
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 13:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 13:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 13:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 13:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/23/24 09:52*	*12/23/24 13:04*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/23/24 09:52*	*12/23/24 13:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 13:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 03:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 03:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 03:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 03:51	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/26/24 07:51*	*12/27/24 03:51*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/26/24 07:51*	*12/27/24 03:51*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 159 (3')

Lab Sample ID: 890-7504-4
Matrix: Solid
Date Collected: 12/18/24 08:15
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266		9.90		mg/Kg			12/23/24 20:37	1

Client Sample ID: BH - 160 (3')

Lab Sample ID: 890-7504-5
Matrix: Solid
Date Collected: 12/18/24 08:20
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 13:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 13:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 13:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 13:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 13:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/23/24 09:52*	*12/23/24 13:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/23/24 09:52*	*12/23/24 13:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 13:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 04:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 04:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 04:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 04:06	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:06*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		10.0		mg/Kg			12/23/24 20:55	1

Client Sample ID: BH - 161 (3')

Lab Sample ID: 890-7504-6
Matrix: Solid
Date Collected: 12/18/24 08:25
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 13:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 13:46	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 161 (3')

Lab Sample ID: 890-7504-6
Matrix: Solid
Date Collected: 12/18/24 08:25
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 13:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:52	12/23/24 13:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:52	12/23/24 13:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/23/24 09:52*	*12/23/24 13:46*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/23/24 09:52*	*12/23/24 13:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 13:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/27/24 04:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 07:51	12/27/24 04:22	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 07:51	12/27/24 04:22	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 07:51	12/27/24 04:22	1
Total TPH	<49.7	U	49.7		mg/Kg		12/26/24 07:51	12/27/24 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:22*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		9.96		mg/Kg			12/23/24 21:00	1

Client Sample ID: BH - 153 (3')

Lab Sample ID: 890-7504-7
Matrix: Solid
Date Collected: 12/18/24 08:30
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 14:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 14:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 14:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:52	12/23/24 14:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:52	12/23/24 14:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/23/24 09:52*	*12/23/24 14:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/23/24 09:52*	*12/23/24 14:06*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 153 (3')

Lab Sample ID: 890-7504-7
Matrix: Solid
Date Collected: 12/18/24 08:30
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 04:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 04:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 04:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 04:38	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:38*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		9.94		mg/Kg			12/23/24 21:18	1

Client Sample ID: BH - 168 (3')

Lab Sample ID: 890-7504-8
Matrix: Solid
Date Collected: 12/18/24 08:35
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 14:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:52	12/23/24 14:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:52	12/23/24 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/23/24 09:52*	*12/23/24 14:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/23/24 09:52*	*12/23/24 14:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 14:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 04:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 04:52	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 168 (3')

Lab Sample ID: 890-7504-8
Matrix: Solid
Date Collected: 12/18/24 08:35
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 04:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 04:52	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:52*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/26/24 07:51*	*12/27/24 04:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**391**		9.92		mg/Kg			12/23/24 21:23	1

Client Sample ID: BH - 169 (3')

Lab Sample ID: 890-7504-9
Matrix: Solid
Date Collected: 12/18/24 08:40
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 14:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 14:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 14:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 14:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 14:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/23/24 09:52*	*12/23/24 14:47*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/23/24 09:52*	*12/23/24 14:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 14:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 05:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:08	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:08*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:08*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 169 (3')

Lab Sample ID: 890-7504-9
Matrix: Solid
Date Collected: 12/18/24 08:40
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		9.90		mg/Kg			12/23/24 21:29	1

Client Sample ID: BH - 164 (3')

Lab Sample ID: 890-7504-10
Matrix: Solid
Date Collected: 12/18/24 08:45
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 15:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 15:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 15:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 15:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 15:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:52*	*12/23/24 15:08*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/23/24 09:52*	*12/23/24 15:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 15:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/27/24 05:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:24	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:51	12/27/24 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:24*	*1*
o-Terphenyl	*72*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		9.90		mg/Kg			12/23/24 21:35	1

Client Sample ID: BH - 152 (3')

Lab Sample ID: 890-7504-11
Matrix: Solid
Date Collected: 12/18/24 09:00
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 16:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 16:42	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 152 (3')

Lab Sample ID: 890-7504-11
Matrix: Solid
Date Collected: 12/18/24 09:00
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 16:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:52	12/23/24 16:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:52	12/23/24 16:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:52*	*12/23/24 16:42*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/23/24 09:52*	*12/23/24 16:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 16:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 05:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 05:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 05:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 05:39	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:39*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		9.94		mg/Kg			12/23/24 21:41	1

Client Sample ID: BH - 158 (3')

Lab Sample ID: 890-7504-12
Matrix: Solid
Date Collected: 12/18/24 09:05
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:52	12/23/24 17:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:52	12/23/24 17:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/23/24 09:52*	*12/23/24 17:02*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/23/24 09:52*	*12/23/24 17:02*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 158 (3')

Lab Sample ID: 890-7504-12
Matrix: Solid
Date Collected: 12/18/24 09:05
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 17:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/24 05:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 05:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 05:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 05:54	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/27/24 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:54*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/26/24 07:51*	*12/27/24 05:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**306**		10.1		mg/Kg			12/23/24 21:46	1

Client Sample ID: BH - 151 (3')

Lab Sample ID: 890-7504-13
Matrix: Solid
Date Collected: 12/18/24 09:10
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 17:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 17:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/23/24 09:52*	*12/23/24 17:23*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/23/24 09:52*	*12/23/24 17:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 17:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 06:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 06:10	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 151 (3')

Lab Sample ID: 890-7504-13
Matrix: Solid
Date Collected: 12/18/24 09:10
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 06:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 06:10	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:51	12/27/24 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/26/24 07:51*	*12/27/24 06:10*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/26/24 07:51*	*12/27/24 06:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.0**		9.96		mg/Kg			12/23/24 21:52	1

Client Sample ID: BH - 157 (3')

Lab Sample ID: 890-7504-14
Matrix: Solid
Date Collected: 12/18/24 09:15
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 17:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 17:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 17:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 17:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 17:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/23/24 09:52*	*12/23/24 17:43*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/23/24 09:52*	*12/23/24 17:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 17:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 16:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/26/24 07:53	12/26/24 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/26/24 07:53	12/26/24 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 16:31	1
Total TPH	<50.0	U F1	50.0		mg/Kg		12/26/24 07:53	12/26/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/26/24 07:53*	*12/26/24 16:31*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/26/24 07:53*	*12/26/24 16:31*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 157 (3')

Lab Sample ID: 890-7504-14
Matrix: Solid
Date Collected: 12/18/24 09:15
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257	F1	9.96		mg/Kg			12/24/24 19:17	1

Client Sample ID: BH - 154 (3')

Lab Sample ID: 890-7504-15
Matrix: Solid
Date Collected: 12/18/24 09:20
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 18:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 18:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 18:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:52	12/23/24 18:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:52	12/23/24 18:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/23/24 09:52*	*12/23/24 18:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/23/24 09:52*	*12/23/24 18:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 18:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/26/24 17:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 17:36	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 17:36	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 17:36	1
Total TPH	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/26/24 07:53*	*12/26/24 17:36*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/26/24 07:53*	*12/26/24 17:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		9.94		mg/Kg			12/24/24 19:35	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7504-1	BH - 156 (3')	114	94
890-7504-1 MS	BH - 156 (3')	105	96
890-7504-1 MSD	BH - 156 (3')	99	97
890-7504-2	BH - 153 (3')	110	96
890-7504-3	BH - 165 (3')	106	97
890-7504-4	BH - 159 (3')	111	97
890-7504-5	BH - 160 (3')	98	96
890-7504-6	BH - 161 (3')	98	95
890-7504-7	BH - 153 (3')	100	96
890-7504-8	BH - 168 (3')	97	98
890-7504-9	BH - 169 (3')	113	95
890-7504-10	BH - 164 (3')	107	99
890-7504-11	BH - 152 (3')	105	98
890-7504-12	BH - 158 (3')	94	98
890-7504-13	BH - 151 (3')	109	98
890-7504-14	BH - 157 (3')	112	97
890-7504-15	BH - 154 (3')	110	98
LCS 880-98625/1-A	Lab Control Sample	107	99
LCSD 880-98625/2-A	Lab Control Sample Dup	109	98
MB 880-98625/5-A	Method Blank	96	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7503-A-2-F MS	Matrix Spike	74	77
890-7503-A-2-G MSD	Matrix Spike Duplicate	75	78
890-7504-1	BH - 156 (3')	81	82
890-7504-2	BH - 153 (3')	86	86
890-7504-3	BH - 165 (3')	81	81
890-7504-4	BH - 159 (3')	80	80
890-7504-5	BH - 160 (3')	78	80
890-7504-6	BH - 161 (3')	84	84
890-7504-7	BH - 153 (3')	85	83
890-7504-8	BH - 168 (3')	81	82
890-7504-9	BH - 169 (3')	84	83
890-7504-10	BH - 164 (3')	72	72
890-7504-11	BH - 152 (3')	78	79
890-7504-12	BH - 158 (3')	89	86
890-7504-13	BH - 151 (3')	77	77
890-7504-14	BH - 157 (3')	83	84
890-7504-14 MS	BH - 157 (3')	85	79
890-7504-14 MSD	BH - 157 (3')	74	77
890-7504-15	BH - 154 (3')	81	82

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7504-1
Project/Site: Iceman SWD
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCS 880-98770/2-A	Lab Control Sample	90	90								
LCS 880-98771/2-A	Lab Control Sample	90	91								
LCSD 880-98770/3-A	Lab Control Sample Dup	90	91								
LCSD 880-98771/3-A	Lab Control Sample Dup	96	96								
MB 880-98770/1-A	Method Blank	66 S1-	65 S1-								
MB 880-98771/1-A	Method Blank	68 S1-	67 S1-								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98625/5-A
Matrix: Solid
Analysis Batch: 98600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/23/24 09:52*	*12/23/24 11:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/23/24 09:52*	*12/23/24 11:41*	*1*

Lab Sample ID: LCS 880-98625/1-A
Matrix: Solid
Analysis Batch: 98600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98625

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1217		mg/Kg		122	70 - 130		
Ethylbenzene			0.100	0.1146		mg/Kg		115	70 - 130		
Toluene			0.100	0.1194		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene			0.200	0.2201		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1225		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-98625/2-A
Matrix: Solid
Analysis Batch: 98600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98625

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1145		mg/Kg		115	70 - 130	6	35
Ethylbenzene			0.100	0.1083		mg/Kg		108	70 - 130	6	35
Toluene			0.100	0.1122		mg/Kg		112	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2069		mg/Kg		103	70 - 130	6	35
o-Xylene			0.100	0.1154		mg/Kg		115	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-7504-1 MS
Matrix: Solid
Analysis Batch: 98600

Client Sample ID: BH - 156 (3')
Prep Type: Total/NA
Prep Batch: 98625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.0996	0.04684	F1	mg/Kg		47	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0996	0.04384	F1	mg/Kg		44	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7504-1 MS
Matrix: Solid
Analysis Batch: 98600

Client Sample ID: BH - 156 (3')
Prep Type: Total/NA
Prep Batch: 98625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U F1	0.0996	0.04576	F1	mg/Kg		46	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.09334	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.04148	F1	mg/Kg		42	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-7504-1 MSD
Matrix: Solid
Analysis Batch: 98600

Client Sample ID: BH - 156 (3')
Prep Type: Total/NA
Prep Batch: 98625

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.05549	F1	mg/Kg		55	70 - 130	17	35
Ethylbenzene	<0.00199	U F1	0.101	0.04682	F1	mg/Kg		46	70 - 130	7	35
Toluene	<0.00199	U F1	0.101	0.05136	F1	mg/Kg		51	70 - 130	12	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.09637	F1	mg/Kg		48	70 - 130	3	35
o-Xylene	<0.00199	U F1	0.101	0.04357	F1	mg/Kg		43	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-98770/1-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:51	12/26/24 23:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*12/26/24 07:51*	*12/26/24 23:45*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*12/26/24 07:51*	*12/26/24 23:45*	*1*

Lab Sample ID: LCS 880-98770/2-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	923.5		mg/Kg		92	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-98770/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	793.9		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-98770/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	918.4		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	812.2		mg/Kg		81	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 890-7503-A-2-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	525.5	F1	mg/Kg		53	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	558.3	F1	mg/Kg		56	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: 890-7503-A-2-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98770**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	544.1	F1	mg/Kg		54	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	567.3	F1	mg/Kg		57	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*75*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-98771/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*

Lab Sample ID: LCS 880-98771/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	905.0		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	808.1		mg/Kg		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-98771/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	955.7		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	855.9		mg/Kg		86	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-7504-14 MS — **Client Sample ID: BH - 157 (3')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	549.5	F1	mg/Kg		55	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	559.1	F1	mg/Kg		56	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7504-14 MS
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: BH - 157 (3')
Prep Type: Total/NA
Prep Batch: 98771

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-7504-14 MSD
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: BH - 157 (3')
Prep Type: Total/NA
Prep Batch: 98771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	538.1	F1	mg/Kg		54	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	570.7	F1	mg/Kg		57	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	77		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98558/1-A
Matrix: Solid
Analysis Batch: 98664

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/23/24 18:59	1

Lab Sample ID: LCS 880-98558/2-A
Matrix: Solid
Analysis Batch: 98664

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.3		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-98558/3-A
Matrix: Solid
Analysis Batch: 98664

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	235.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-7504-4 MS
Matrix: Solid
Analysis Batch: 98664

Client Sample ID: BH - 159 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	266		248	529.4		mg/Kg		107	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7504-4 MSD — **Client Sample ID: BH - 159 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	266		248	530.2		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-98559/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/24/24 19:00	1

Lab Sample ID: LCS 880-98559/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-98559/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	267.6		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-7504-14 MS — **Client Sample ID: BH - 157 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	257	F1	249	586.8	F1	mg/Kg		132	90 - 110

Lab Sample ID: 890-7504-14 MSD — **Client Sample ID: BH - 157 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	257	F1	249	588.2	F1	mg/Kg		133	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

GC VOA

Analysis Batch: 98600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Total/NA	Solid	8021B	98625
890-7504-2	BH - 153 (3')	Total/NA	Solid	8021B	98625
890-7504-3	BH - 165 (3')	Total/NA	Solid	8021B	98625
890-7504-4	BH - 159 (3')	Total/NA	Solid	8021B	98625
890-7504-5	BH - 160 (3')	Total/NA	Solid	8021B	98625
890-7504-6	BH - 161 (3')	Total/NA	Solid	8021B	98625
890-7504-7	BH - 153 (3')	Total/NA	Solid	8021B	98625
890-7504-8	BH - 168 (3')	Total/NA	Solid	8021B	98625
890-7504-9	BH - 169 (3')	Total/NA	Solid	8021B	98625
890-7504-10	BH - 164 (3')	Total/NA	Solid	8021B	98625
890-7504-11	BH - 152 (3')	Total/NA	Solid	8021B	98625
890-7504-12	BH - 158 (3')	Total/NA	Solid	8021B	98625
890-7504-13	BH - 151 (3')	Total/NA	Solid	8021B	98625
890-7504-14	BH - 157 (3')	Total/NA	Solid	8021B	98625
890-7504-15	BH - 154 (3')	Total/NA	Solid	8021B	98625
MB 880-98625/5-A	Method Blank	Total/NA	Solid	8021B	98625
LCS 880-98625/1-A	Lab Control Sample	Total/NA	Solid	8021B	98625
LCSD 880-98625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98625
890-7504-1 MS	BH - 156 (3')	Total/NA	Solid	8021B	98625
890-7504-1 MSD	BH - 156 (3')	Total/NA	Solid	8021B	98625

Prep Batch: 98625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Total/NA	Solid	5035	
890-7504-2	BH - 153 (3')	Total/NA	Solid	5035	
890-7504-3	BH - 165 (3')	Total/NA	Solid	5035	
890-7504-4	BH - 159 (3')	Total/NA	Solid	5035	
890-7504-5	BH - 160 (3')	Total/NA	Solid	5035	
890-7504-6	BH - 161 (3')	Total/NA	Solid	5035	
890-7504-7	BH - 153 (3')	Total/NA	Solid	5035	
890-7504-8	BH - 168 (3')	Total/NA	Solid	5035	
890-7504-9	BH - 169 (3')	Total/NA	Solid	5035	
890-7504-10	BH - 164 (3')	Total/NA	Solid	5035	
890-7504-11	BH - 152 (3')	Total/NA	Solid	5035	
890-7504-12	BH - 158 (3')	Total/NA	Solid	5035	
890-7504-13	BH - 151 (3')	Total/NA	Solid	5035	
890-7504-14	BH - 157 (3')	Total/NA	Solid	5035	
890-7504-15	BH - 154 (3')	Total/NA	Solid	5035	
MB 880-98625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7504-1 MS	BH - 156 (3')	Total/NA	Solid	5035	
890-7504-1 MSD	BH - 156 (3')	Total/NA	Solid	5035	

Analysis Batch: 98819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Total/NA	Solid	Total BTEX	
890-7504-2	BH - 153 (3')	Total/NA	Solid	Total BTEX	
890-7504-3	BH - 165 (3')	Total/NA	Solid	Total BTEX	
890-7504-4	BH - 159 (3')	Total/NA	Solid	Total BTEX	
890-7504-5	BH - 160 (3')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

GC VOA (Continued)

Analysis Batch: 98819 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-6	BH - 161 (3')	Total/NA	Solid	Total BTEX	
890-7504-7	BH - 153 (3')	Total/NA	Solid	Total BTEX	
890-7504-8	BH - 168 (3')	Total/NA	Solid	Total BTEX	
890-7504-9	BH - 169 (3')	Total/NA	Solid	Total BTEX	
890-7504-10	BH - 164 (3')	Total/NA	Solid	Total BTEX	
890-7504-11	BH - 152 (3')	Total/NA	Solid	Total BTEX	
890-7504-12	BH - 158 (3')	Total/NA	Solid	Total BTEX	
890-7504-13	BH - 151 (3')	Total/NA	Solid	Total BTEX	
890-7504-14	BH - 157 (3')	Total/NA	Solid	Total BTEX	
890-7504-15	BH - 154 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Total/NA	Solid	8015NM Prep	
890-7504-2	BH - 153 (3')	Total/NA	Solid	8015NM Prep	
890-7504-3	BH - 165 (3')	Total/NA	Solid	8015NM Prep	
890-7504-4	BH - 159 (3')	Total/NA	Solid	8015NM Prep	
890-7504-5	BH - 160 (3')	Total/NA	Solid	8015NM Prep	
890-7504-6	BH - 161 (3')	Total/NA	Solid	8015NM Prep	
890-7504-7	BH - 153 (3')	Total/NA	Solid	8015NM Prep	
890-7504-8	BH - 168 (3')	Total/NA	Solid	8015NM Prep	
890-7504-9	BH - 169 (3')	Total/NA	Solid	8015NM Prep	
890-7504-10	BH - 164 (3')	Total/NA	Solid	8015NM Prep	
890-7504-11	BH - 152 (3')	Total/NA	Solid	8015NM Prep	
890-7504-12	BH - 158 (3')	Total/NA	Solid	8015NM Prep	
890-7504-13	BH - 151 (3')	Total/NA	Solid	8015NM Prep	
MB 880-98770/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98770/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7503-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7503-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 98771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-14	BH - 157 (3')	Total/NA	Solid	8015NM Prep	
890-7504-15	BH - 154 (3')	Total/NA	Solid	8015NM Prep	
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7504-14 MS	BH - 157 (3')	Total/NA	Solid	8015NM Prep	
890-7504-14 MSD	BH - 157 (3')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Total/NA	Solid	8015B NM	98770
890-7504-2	BH - 153 (3')	Total/NA	Solid	8015B NM	98770
890-7504-3	BH - 165 (3')	Total/NA	Solid	8015B NM	98770
890-7504-4	BH - 159 (3')	Total/NA	Solid	8015B NM	98770
890-7504-5	BH - 160 (3')	Total/NA	Solid	8015B NM	98770

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

GC Semi VOA (Continued)

Analysis Batch: 98813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-6	BH - 161 (3')	Total/NA	Solid	8015B NM	98770
890-7504-7	BH - 153 (3')	Total/NA	Solid	8015B NM	98770
890-7504-8	BH - 168 (3')	Total/NA	Solid	8015B NM	98770
890-7504-9	BH - 169 (3')	Total/NA	Solid	8015B NM	98770
890-7504-10	BH - 164 (3')	Total/NA	Solid	8015B NM	98770
890-7504-11	BH - 152 (3')	Total/NA	Solid	8015B NM	98770
890-7504-12	BH - 158 (3')	Total/NA	Solid	8015B NM	98770
890-7504-13	BH - 151 (3')	Total/NA	Solid	8015B NM	98770
890-7504-14	BH - 157 (3')	Total/NA	Solid	8015B NM	98771
890-7504-15	BH - 154 (3')	Total/NA	Solid	8015B NM	98771
MB 880-98770/1-A	Method Blank	Total/NA	Solid	8015B NM	98770
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015B NM	98771
LCS 880-98770/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98770
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98771
LCSD 880-98770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98770
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98771
890-7503-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	98770
890-7503-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98770
890-7504-14 MS	BH - 157 (3')	Total/NA	Solid	8015B NM	98771
890-7504-14 MSD	BH - 157 (3')	Total/NA	Solid	8015B NM	98771

Analysis Batch: 98943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Total/NA	Solid	8015 NM	
890-7504-2	BH - 153 (3')	Total/NA	Solid	8015 NM	
890-7504-3	BH - 165 (3')	Total/NA	Solid	8015 NM	
890-7504-4	BH - 159 (3')	Total/NA	Solid	8015 NM	
890-7504-5	BH - 160 (3')	Total/NA	Solid	8015 NM	
890-7504-6	BH - 161 (3')	Total/NA	Solid	8015 NM	
890-7504-7	BH - 153 (3')	Total/NA	Solid	8015 NM	
890-7504-8	BH - 168 (3')	Total/NA	Solid	8015 NM	
890-7504-9	BH - 169 (3')	Total/NA	Solid	8015 NM	
890-7504-10	BH - 164 (3')	Total/NA	Solid	8015 NM	
890-7504-11	BH - 152 (3')	Total/NA	Solid	8015 NM	
890-7504-12	BH - 158 (3')	Total/NA	Solid	8015 NM	
890-7504-13	BH - 151 (3')	Total/NA	Solid	8015 NM	
890-7504-14	BH - 157 (3')	Total/NA	Solid	8015 NM	
890-7504-15	BH - 154 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Soluble	Solid	DI Leach	
890-7504-2	BH - 153 (3')	Soluble	Solid	DI Leach	
890-7504-3	BH - 165 (3')	Soluble	Solid	DI Leach	
890-7504-4	BH - 159 (3')	Soluble	Solid	DI Leach	
890-7504-5	BH - 160 (3')	Soluble	Solid	DI Leach	
890-7504-6	BH - 161 (3')	Soluble	Solid	DI Leach	
890-7504-7	BH - 153 (3')	Soluble	Solid	DI Leach	
890-7504-8	BH - 168 (3')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Leach Batch: 98558 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-9	BH - 169 (3')	Soluble	Solid	DI Leach	
890-7504-10	BH - 164 (3')	Soluble	Solid	DI Leach	
890-7504-11	BH - 152 (3')	Soluble	Solid	DI Leach	
890-7504-12	BH - 158 (3')	Soluble	Solid	DI Leach	
890-7504-13	BH - 151 (3')	Soluble	Solid	DI Leach	
MB 880-98558/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98558/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98558/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7504-4 MS	BH - 159 (3')	Soluble	Solid	DI Leach	
890-7504-4 MSD	BH - 159 (3')	Soluble	Solid	DI Leach	

Leach Batch: 98559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-14	BH - 157 (3')	Soluble	Solid	DI Leach	
890-7504-15	BH - 154 (3')	Soluble	Solid	DI Leach	
MB 880-98559/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98559/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98559/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7504-14 MS	BH - 157 (3')	Soluble	Solid	DI Leach	
890-7504-14 MSD	BH - 157 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 98664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-1	BH - 156 (3')	Soluble	Solid	300.0	98558
890-7504-2	BH - 153 (3')	Soluble	Solid	300.0	98558
890-7504-3	BH - 165 (3')	Soluble	Solid	300.0	98558
890-7504-4	BH - 159 (3')	Soluble	Solid	300.0	98558
890-7504-5	BH - 160 (3')	Soluble	Solid	300.0	98558
890-7504-6	BH - 161 (3')	Soluble	Solid	300.0	98558
890-7504-7	BH - 153 (3')	Soluble	Solid	300.0	98558
890-7504-8	BH - 168 (3')	Soluble	Solid	300.0	98558
890-7504-9	BH - 169 (3')	Soluble	Solid	300.0	98558
890-7504-10	BH - 164 (3')	Soluble	Solid	300.0	98558
890-7504-11	BH - 152 (3')	Soluble	Solid	300.0	98558
890-7504-12	BH - 158 (3')	Soluble	Solid	300.0	98558
890-7504-13	BH - 151 (3')	Soluble	Solid	300.0	98558
MB 880-98558/1-A	Method Blank	Soluble	Solid	300.0	98558
LCS 880-98558/2-A	Lab Control Sample	Soluble	Solid	300.0	98558
LCSD 880-98558/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98558
890-7504-4 MS	BH - 159 (3')	Soluble	Solid	300.0	98558
890-7504-4 MSD	BH - 159 (3')	Soluble	Solid	300.0	98558

Analysis Batch: 98688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7504-14	BH - 157 (3')	Soluble	Solid	300.0	98559
890-7504-15	BH - 154 (3')	Soluble	Solid	300.0	98559
MB 880-98559/1-A	Method Blank	Soluble	Solid	300.0	98559
LCS 880-98559/2-A	Lab Control Sample	Soluble	Solid	300.0	98559
LCSD 880-98559/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98559
890-7504-14 MS	BH - 157 (3')	Soluble	Solid	300.0	98559
890-7504-14 MSD	BH - 157 (3')	Soluble	Solid	300.0	98559

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 156 (3')

Lab Sample ID: 890-7504-1
Date Collected: 12/18/24 08:00
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 12:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 12:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 02:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 02:50	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 20:20	CH	EET MID

Client Sample ID: BH - 153 (3')

Lab Sample ID: 890-7504-2
Date Collected: 12/18/24 08:05
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 03:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 03:05	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 20:26	CH	EET MID

Client Sample ID: BH - 165 (3')

Lab Sample ID: 890-7504-3
Date Collected: 12/18/24 08:10
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 03:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 03:20	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 20:32	CH	EET MID

Client Sample ID: BH - 159 (3')

Lab Sample ID: 890-7504-4
Date Collected: 12/18/24 08:15
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 13:04	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 159 (3')

Lab Sample ID: 890-7504-4
Matrix: Solid
Date Collected: 12/18/24 08:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98943	12/27/24 03:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 03:51	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 20:37	CH	EET MID

Client Sample ID: BH - 160 (3')

Lab Sample ID: 890-7504-5
Matrix: Solid
Date Collected: 12/18/24 08:20
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 13:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 04:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 04:06	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 20:55	CH	EET MID

Client Sample ID: BH - 161 (3')

Lab Sample ID: 890-7504-6
Matrix: Solid
Date Collected: 12/18/24 08:25
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 13:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 04:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 04:22	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:00	CH	EET MID

Client Sample ID: BH - 153 (3')

Lab Sample ID: 890-7504-7
Matrix: Solid
Date Collected: 12/18/24 08:30
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 04:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 04:38	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 153 (3')

Lab Sample ID: 890-7504-7
Matrix: Solid
Date Collected: 12/18/24 08:30
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:18	CH	EET MID

Client Sample ID: BH - 168 (3')

Lab Sample ID: 890-7504-8
Matrix: Solid
Date Collected: 12/18/24 08:35
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 04:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 04:52	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:23	CH	EET MID

Client Sample ID: BH - 169 (3')

Lab Sample ID: 890-7504-9
Matrix: Solid
Date Collected: 12/18/24 08:40
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 14:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 14:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 05:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 05:08	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:29	CH	EET MID

Client Sample ID: BH - 164 (3')

Lab Sample ID: 890-7504-10
Matrix: Solid
Date Collected: 12/18/24 08:45
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 15:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 15:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 05:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 05:24	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:35	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 152 (3')

Lab Sample ID: 890-7504-11
Matrix: Solid
Date Collected: 12/18/24 09:00
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 16:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 05:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 05:39	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:41	CH	EET MID

Client Sample ID: BH - 158 (3')

Lab Sample ID: 890-7504-12
Matrix: Solid
Date Collected: 12/18/24 09:05
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 17:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 05:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 05:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:46	CH	EET MID

Client Sample ID: BH - 151 (3')

Lab Sample ID: 890-7504-13
Matrix: Solid
Date Collected: 12/18/24 09:10
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 17:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/27/24 06:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98770	12/26/24 07:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/27/24 06:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98558	12/21/24 14:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98664	12/23/24 21:52	CH	EET MID

Client Sample ID: BH - 157 (3')

Lab Sample ID: 890-7504-14
Matrix: Solid
Date Collected: 12/18/24 09:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 17:43	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 157 (3')

Lab Sample ID: 890-7504-14
Matrix: Solid
Date Collected: 12/18/24 09:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98943	12/26/24 16:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 16:31	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 19:17	CH	EET MID

Client Sample ID: BH - 154 (3')

Lab Sample ID: 890-7504-15
Matrix: Solid
Date Collected: 12/18/24 09:20
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98819	12/23/24 18:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			98943	12/26/24 17:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 17:36	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 19:35	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7504-1
SDG: 212C - MD - 03085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7504-1	BH - 156 (3')	Solid	12/18/24 08:00	12/20/24 13:45
890-7504-2	BH - 153 (3')	Solid	12/18/24 08:05	12/20/24 13:45
890-7504-3	BH - 165 (3')	Solid	12/18/24 08:10	12/20/24 13:45
890-7504-4	BH - 159 (3')	Solid	12/18/24 08:15	12/20/24 13:45
890-7504-5	BH - 160 (3')	Solid	12/18/24 08:20	12/20/24 13:45
890-7504-6	BH - 161 (3')	Solid	12/18/24 08:25	12/20/24 13:45
890-7504-7	BH - 153 (3')	Solid	12/18/24 08:30	12/20/24 13:45
890-7504-8	BH - 168 (3')	Solid	12/18/24 08:35	12/20/24 13:45
890-7504-9	BH - 169 (3')	Solid	12/18/24 08:40	12/20/24 13:45
890-7504-10	BH - 164 (3')	Solid	12/18/24 08:45	12/20/24 13:45
890-7504-11	BH - 152 (3')	Solid	12/18/24 09:00	12/20/24 13:45
890-7504-12	BH - 158 (3')	Solid	12/18/24 09:05	12/20/24 13:45
890-7504-13	BH - 151 (3')	Solid	12/18/24 09:10	12/20/24 13:45
890-7504-14	BH - 157 (3')	Solid	12/18/24 09:15	12/20/24 13:45
890-7504-15	BH - 154 (3')	Solid	12/18/24 09:20	12/20/24 13:45

Page 625 of 1592

Analysis Request of Chain of Custody Record

Page 1 of 2



Tetra Tech, Inc.

901 W Wall Str
Midland, Te:
Tel (432)
Fax (432)

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	BH-156 (3')	12/18/2024	8:00		X				X					X		X												X								
	BH-153 (3')	12/18/2024	8:05		X				X					X		X												X								
	BH-165 (3')	12/18/2024	8:10		X				X					X		X												X								
	BH-159 (3')	12/18/2024	8:15		X				X					X		X												X								
	BH-160 (3')	12/18/2024	8:20		X				X					X		X												X								
	BH-161 (3')	12/18/2024	8:25		X				X					X		X												X								
	BH-153 (3')	12/18/2024	8:30		X				X					X		X												X								
	BH-168 (3')	12/18/2024	8:35		X				X					X		X												X								
	BH-169 (3')	12/18/2024	8:40		X				X					X		X												X								
	BH-164 (3')	12/18/2024	8:45		X				X					X		X												X								

Relinquished by:	Date: 12-20-24	Time: 1342	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 12/20 Time: 1345

LAB USE ONLY

Sample Temperature
TNMC7
-0.2
3.4
3.2

REMARKS: Standard TAT

- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 30 of 44

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

12/27/2024

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-152 (3')	12/18/2024	9:00		X			X			X		X												X				
	BH-158 (3')	12/18/2024	9:05		X			X			X		X												X				
	BH-151 (3')	12/18/2024	9:10		X			X			X		X												X				
	BH-157 (3')	12/18/2024	9:15		X			X			X		X												X				
	BH-154 (3')	12/18/2024	9:20		X			X			X		X												X				

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Date: 12-20-24	Time: 1342	Received by: Date: 12/20 Time: 1345
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
TNM007
-0.2
3.4
3.2

REMARKS: Standard TAT

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM
12/27/2024
Page 40 of 44

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4444.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7504-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/27/2024			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
Preservation Code:													
BH - 156 (3') (890-7504-1)	12/18/24	08:00 Mountain	G	Solid			X	X	X	X	X	1	
BH - 153 (3') (890-7504-2)	12/18/24	08:05 Mountain	G	Solid			X	X	X	X	X	1	
BH - 165 (3') (890-7504-3)	12/18/24	08:10 Mountain	G	Solid			X	X	X	X	X	1	
BH - 159 (3') (890-7504-4)	12/18/24	08:15 Mountain	G	Solid			X	X	X	X	X	1	
BH - 160 (3') (890-7504-5)	12/18/24	08:20 Mountain	G	Solid			X	X	X	X	X	1	
BH - 161 (3') (890-7504-6)	12/18/24	08:25 Mountain	G	Solid			X	X	X	X	X	1	
BH - 153 (3') (890-7504-7)	12/18/24	08:30 Mountain	G	Solid			X	X	X	X	X	1	
BH - 168 (3') (890-7504-8)	12/18/24	08:35 Mountain	G	Solid			X	X	X	X	X	1	
BH - 169 (3') (890-7504-9)	12/18/24	08:40 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/20 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 627 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
12/27/2024
Page 41 of 44
Released to Imaging: 6/2/2026 11:27:44 AM

Page 628 of 1592

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4444.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7504-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/27/2024			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH - 164 (3') (890-7504-10)	12/18/24	08:45 Mountain	G	Solid			X	X	X	X	X	1	
BH - 152 (3') (890-7504-11)	12/18/24	09:00 Mountain	G	Solid			X	X	X	X	X	1	
BH - 158 (3') (890-7504-12)	12/18/24	09:05 Mountain	G	Solid			X	X	X	X	X	1	
BH - 151 (3') (890-7504-13)	12/18/24	09:10 Mountain	G	Solid			X	X	X	X	X	1	
BH - 157 (3') (890-7504-14)	12/18/24	09:15 Mountain	G	Solid			X	X	X	X	X	1	
BH - 154 (3') (890-7504-15)	12/18/24	09:20 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/20 1630				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7504-1
SDG Number: 212C - MD - 03085

Login Number: 7504
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7504-1
SDG Number: 212C - MD - 03085

Login Number: 7504
List Number: 2
Creator: Lee, Randell

List Source: Eurofins Midland
List Creation: 12/23/24 10:08 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/27/2024 11:29:56 AM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7505-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

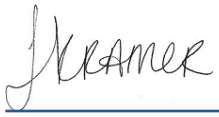
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/27/2024 11:29:56 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 18
QC Sample Results 20
QC Association Summary 26
Lab Chronicle 30
Certification Summary 35
Method Summary 36
Sample Summary 37
Chain of Custody 38
Receipt Checklists 42

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7505-1

Job ID: 890-7505-1 Eurofins Carlsbad

Job Narrative
890-7505-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/20/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 140 (3') (890-7505-1), BH - 141 (3') (890-7505-2), BH - 142 (3') (890-7505-3), BH - 143 (3') (890-7505-4), BH - 144 (3') (890-7505-5), BH - 145 (2') (890-7505-6), BH - 146 (2') (890-7505-7), BH - 147 (2') (890-7505-8), BH - 148 (2') (890-7505-9), BH - 149 (2') (890-7505-10), BH - 135 (3') (890-7505-11), BH - 136 (3') (890-7505-12), BH - 137 (3') (890-7505-13), BH - 138 (3') (890-7505-14) and BH - 139 (3') (890-7505-15).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98771 and analytical batch 880-98813 was outside the control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98771 and analytical batch 880-98813 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98813 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-98813/21).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98559 and analytical batch 880-98688 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 140 (3')

Lab Sample ID: 890-7505-1
Matrix: Solid
Date Collected: 12/17/24 08:00
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 14:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 14:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 14:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 14:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 14:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/23/24 09:44*	*12/23/24 14:45*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/23/24 09:44*	*12/23/24 14:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 14:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 17:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 17:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 17:52	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/26/24 07:53*	*12/26/24 17:52*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/26/24 07:53*	*12/26/24 17:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.3**		9.92		mg/Kg			12/24/24 19:41	1

Client Sample ID: BH - 141 (3')

Lab Sample ID: 890-7505-2
Matrix: Solid
Date Collected: 12/17/24 08:05
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 15:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 15:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 15:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 15:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 15:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/23/24 09:44*	*12/23/24 15:06*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:44*	*12/23/24 15:06*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 141 (3')

Lab Sample ID: 890-7505-2
Matrix: Solid
Date Collected: 12/17/24 08:05
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 15:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 18:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:08	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:08*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		9.90		mg/Kg			12/24/24 19:47	1

Client Sample ID: BH - 142 (3')

Lab Sample ID: 890-7505-3
Matrix: Solid
Date Collected: 12/17/24 08:10
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 16:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 16:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 16:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:44	12/23/24 16:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:44	12/23/24 16:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/23/24 09:44*	*12/23/24 16:40*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 16:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 16:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 18:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:25	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 142 (3')

Lab Sample ID: 890-7505-3
Date Collected: 12/17/24 08:10
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:25	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:25*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**112**		10.0		mg/Kg			12/24/24 19:53	1

Client Sample ID: BH - 143 (3')

Lab Sample ID: 890-7505-4
Date Collected: 12/17/24 08:15
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:44	12/23/24 17:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:44	12/23/24 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/23/24 09:44*	*12/23/24 17:00*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:44*	*12/23/24 17:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 17:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 18:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:41	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:41*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:41*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 143 (3')

Lab Sample ID: 890-7505-4
Matrix: Solid
Date Collected: 12/17/24 08:15
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.5		10.0		mg/Kg			12/24/24 20:10	1

Client Sample ID: BH - 144 (3')

Lab Sample ID: 890-7505-5
Matrix: Solid
Date Collected: 12/17/24 08:20
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 17:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 17:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/23/24 09:44*	*12/23/24 17:21*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 17:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 18:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:58	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:58*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/26/24 07:53*	*12/26/24 18:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	486		10.0		mg/Kg			12/24/24 20:16	1

Client Sample ID: BH - 145 (2')

Lab Sample ID: 890-7505-6
Matrix: Solid
Date Collected: 12/17/24 08:25
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 17:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 17:41	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 145 (2')

Lab Sample ID: 890-7505-6
Date Collected: 12/17/24 08:25
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 17:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 17:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/23/24 09:44*	*12/23/24 17:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 17:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 17:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 19:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 19:14	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/26/24 07:53*	*12/26/24 19:14*	*1*
o-Terphenyl	*85*		*70 - 130*	*12/26/24 07:53*	*12/26/24 19:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**465**		9.96		mg/Kg			12/24/24 20:22	1

Client Sample ID: BH - 146 (2')

Lab Sample ID: 890-7505-7
Date Collected: 12/17/24 08:30
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 18:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 18:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 18:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:44	12/23/24 18:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:44	12/23/24 18:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/23/24 09:44*	*12/23/24 18:02*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 18:02*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 146 (2')

Lab Sample ID: 890-7505-7
Matrix: Solid
Date Collected: 12/17/24 08:30
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 18:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 19:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 19:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 19:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 19:30	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 19:30*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 19:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**		10.0		mg/Kg			12/24/24 20:28	1

Client Sample ID: BH - 147 (2')

Lab Sample ID: 890-7505-8
Matrix: Solid
Date Collected: 12/17/24 08:35
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 18:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 18:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 18:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/23/24 09:44	12/23/24 18:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/23/24 09:44	12/23/24 18:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:44	12/23/24 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/23/24 09:44*	*12/23/24 18:22*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/23/24 09:44*	*12/23/24 18:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/23/24 18:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 20:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 20:01	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 147 (2')

Lab Sample ID: 890-7505-8
Matrix: Solid
Date Collected: 12/17/24 08:35
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 20:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 20:01	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:01*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**321**		9.98		mg/Kg			12/24/24 20:34	1

Client Sample ID: BH - 148 (2')

Lab Sample ID: 890-7505-9
Matrix: Solid
Date Collected: 12/17/24 08:40
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 18:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 18:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 18:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 18:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:44	12/23/24 18:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/23/24 09:44*	*12/23/24 18:42*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/23/24 09:44*	*12/23/24 18:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/23/24 18:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/26/24 20:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:18	1
Total TPH	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:18*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:18*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 148 (2')

Lab Sample ID: 890-7505-9
Matrix: Solid
Date Collected: 12/17/24 08:40
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202	F1	10.1		mg/Kg			12/24/24 20:40	1

Client Sample ID: BH - 149 (2')

Lab Sample ID: 890-7505-10
Matrix: Solid
Date Collected: 12/17/24 08:45
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 19:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 19:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 19:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 19:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:44	12/23/24 19:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:44	12/23/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/23/24 09:44*	*12/23/24 19:03*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 19:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/23/24 19:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 20:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 20:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 20:33	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:33*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		9.98		mg/Kg			12/24/24 20:57	1

Client Sample ID: BH - 135 (3')

Lab Sample ID: 890-7505-11
Matrix: Solid
Date Collected: 12/17/24 09:00
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 19:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 19:23	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 135 (3')

Lab Sample ID: 890-7505-11
Date Collected: 12/17/24 09:00
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 19:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:44	12/23/24 19:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:44	12/23/24 19:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:44	12/23/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/23/24 09:44*	*12/23/24 19:23*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/23/24 09:44*	*12/23/24 19:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/23/24 19:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/26/24 20:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:49	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:49	1
Total TPH	<49.7	U	49.7		mg/Kg		12/26/24 07:53	12/26/24 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:49*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 20:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**138**		9.90		mg/Kg			12/24/24 21:03	1

Client Sample ID: BH - 136 (3')

Lab Sample ID: 890-7505-12
Date Collected: 12/17/24 09:05
Matrix: Solid
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 19:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 19:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 19:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:44	12/23/24 19:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:44	12/23/24 19:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/23/24 09:44*	*12/23/24 19:44*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/23/24 09:44*	*12/23/24 19:44*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 136 (3')

Lab Sample ID: 890-7505-12
Matrix: Solid
Date Collected: 12/17/24 09:05
Date Received: 12/20/24 13:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/23/24 19:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 21:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 21:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 21:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 21:06	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:06*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		9.90		mg/Kg			12/24/24 21:21	1

Client Sample ID: BH - 137 (3')

Lab Sample ID: 890-7505-13
Matrix: Solid
Date Collected: 12/17/24 09:10
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:23	12/23/24 16:09	1
Ethylbenzene	**0.00677**		0.00199		mg/Kg		12/23/24 09:23	12/23/24 16:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:23	12/23/24 16:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:23	12/23/24 16:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:23	12/23/24 16:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:23	12/23/24 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/23/24 09:23*	*12/23/24 16:09*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/23/24 09:23*	*12/23/24 16:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00677**		0.00398		mg/Kg			12/23/24 16:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 21:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:21	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 137 (3')

Lab Sample ID: 890-7505-13
Matrix: Solid
Date Collected: 12/17/24 09:10
Date Received: 12/20/24 13:45

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:21	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:21*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**223**		10.0		mg/Kg			12/24/24 21:27	1

Client Sample ID: BH - 138 (3')

Lab Sample ID: 890-7505-14
Matrix: Solid
Date Collected: 12/17/24 09:15
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:23	12/23/24 16:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:23	12/23/24 16:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:23	12/23/24 16:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 09:23	12/23/24 16:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 09:23	12/23/24 16:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:23	12/23/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*12/23/24 09:23*	*12/23/24 16:30*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/23/24 09:23*	*12/23/24 16:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/23/24 16:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 21:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:37	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 07:53	12/26/24 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:37*	*1*
o-Terphenyl	*88*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:37*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 138 (3')

Lab Sample ID: 890-7505-14
Matrix: Solid
Date Collected: 12/17/24 09:15
Date Received: 12/20/24 13:45

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		10.0		mg/Kg			12/24/24 21:33	1

Client Sample ID: BH - 139 (3')

Lab Sample ID: 890-7505-15
Matrix: Solid
Date Collected: 12/17/24 09:20
Date Received: 12/20/24 13:45

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 16:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 16:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 09:23	12/23/24 16:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 09:23	12/23/24 16:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/23/24 09:23*	*12/23/24 16:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/23/24 09:23*	*12/23/24 16:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/23/24 16:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 21:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 21:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 21:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 21:53	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:53*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/26/24 07:53*	*12/26/24 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		10.0		mg/Kg			12/24/24 21:39	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-52569-A-4-B MS	Matrix Spike	99	96
880-52569-A-4-C MSD	Matrix Spike Duplicate	101	81
890-7503-A-1-B MS	Matrix Spike	112	104
890-7503-A-1-C MSD	Matrix Spike Duplicate	106	103
890-7505-1	BH - 140 (3')	111	108
890-7505-2	BH - 141 (3')	113	106
890-7505-3	BH - 142 (3')	116	107
890-7505-4	BH - 143 (3')	117	106
890-7505-5	BH - 144 (3')	112	107
890-7505-6	BH - 145 (2')	114	107
890-7505-7	BH - 146 (2')	113	107
890-7505-8	BH - 147 (2')	111	105
890-7505-9	BH - 148 (2')	115	108
890-7505-10	BH - 149 (2')	115	107
890-7505-11	BH - 135 (3')	111	106
890-7505-12	BH - 136 (3')	116	107
890-7505-13	BH - 137 (3')	110	84
890-7505-14	BH - 138 (3')	123	93
890-7505-15	BH - 139 (3')	116	94
LCS 880-98608/1-A	Lab Control Sample	101	96
LCS 880-98622/1-A	Lab Control Sample	109	104
LCSD 880-98608/2-A	Lab Control Sample Dup	103	98
LCSD 880-98622/2-A	Lab Control Sample Dup	106	104
MB 880-98608/5-A	Method Blank	110	86
MB 880-98622/5-A	Method Blank	108	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7504-A-14-F MS	Matrix Spike	85	79
890-7504-A-14-G MSD	Matrix Spike Duplicate	74	77
890-7505-1	BH - 140 (3')	83	77
890-7505-2	BH - 141 (3')	79	81
890-7505-3	BH - 142 (3')	85	87
890-7505-4	BH - 143 (3')	80	81
890-7505-5	BH - 144 (3')	80	81
890-7505-6	BH - 145 (2')	84	85
890-7505-7	BH - 146 (2')	87	87
890-7505-8	BH - 147 (2')	79	78
890-7505-9	BH - 148 (2')	87	87
890-7505-10	BH - 149 (2')	78	77
890-7505-11	BH - 135 (3')	86	87
890-7505-12	BH - 136 (3')	79	81

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7505-1
Project/Site: Iceman SWD
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-7505-13	BH - 137 (3')	74	75								
890-7505-14	BH - 138 (3')	87	88								
890-7505-15	BH - 139 (3')	87	86								
LCS 880-98771/2-A	Lab Control Sample	90	91								
LCSD 880-98771/3-A	Lab Control Sample Dup	96	96								
MB 880-98771/1-A	Method Blank	68 S1-	67 S1-								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98608/5-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:23	12/23/24 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:23	12/23/24 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:23	12/23/24 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/23/24 09:23*	*12/23/24 11:20*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/23/24 09:23*	*12/23/24 11:20*	*1*

Lab Sample ID: LCS 880-98608/1-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1067		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1042		mg/Kg		104	70 - 130
Toluene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2088		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1075		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-98608/2-A
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1138		mg/Kg		114	70 - 130	6	35
Ethylbenzene	0.100	0.1100		mg/Kg		110	70 - 130	5	35
Toluene	0.100	0.1075		mg/Kg		107	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2192		mg/Kg		110	70 - 130	5	35
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-52569-A-4-B MS
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.1016		mg/Kg		102	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.08084		mg/Kg		81	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-52569-A-4-B MS
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene	<0.00201	U	0.0996	0.09130		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1603		mg/Kg		80	70 - 130		
o-Xylene	<0.00201	U	0.0996	0.08417		mg/Kg		85	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-52569-A-4-C MSD
Matrix: Solid
Analysis Batch: 98598

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.101	0.09458		mg/Kg		94	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.101	0.07357		mg/Kg		73	70 - 130	9	35
Toluene	<0.00201	U	0.101	0.08158		mg/Kg		81	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1420		mg/Kg		70	70 - 130	12	35
o-Xylene	<0.00201	U	0.101	0.07269		mg/Kg		72	70 - 130	15	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: MB 880-98622/5-A
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:44	12/23/24 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:44	12/23/24 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/23/24 09:44*	*12/23/24 11:40*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/23/24 09:44*	*12/23/24 11:40*	*1*

Lab Sample ID: LCS 880-98622/1-A
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.1075		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2167		mg/Kg		108	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-98622/1-A
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1110		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-98622/2-A
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1108		mg/Kg		111	70 - 130	0	35
Ethylbenzene			0.100	0.1056		mg/Kg		106	70 - 130	0	35
Toluene			0.100	0.1073		mg/Kg		107	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2158		mg/Kg		108	70 - 130	0	35
o-Xylene			0.100	0.1112		mg/Kg		111	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-7503-A-1-B MS
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1056		mg/Kg		106	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.09781		mg/Kg		98	70 - 130		
Toluene	<0.00199	U	0.0996	0.1013		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1992		mg/Kg		100	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1008		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-7503-A-1-C MSD
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1067		mg/Kg		106	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.09706		mg/Kg		96	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1019		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1973		mg/Kg		98	70 - 130	1	35
o-Xylene	<0.00199	U	0.101	0.09961		mg/Kg		99	70 - 130	1	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7503-A-1-C MSD
Matrix: Solid
Analysis Batch: 98601

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98622

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-98771/1-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*

Lab Sample ID: LCS 880-98771/2-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98771

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	905.0		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	808.1		mg/Kg		81	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-98771/3-A
Matrix: Solid
Analysis Batch: 98813

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.7		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	855.9		mg/Kg		86	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7504-A-14-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	549.5	F1	mg/Kg		55	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	559.1	F1	mg/Kg		56	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: 890-7504-A-14-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	538.1	F1	mg/Kg		54	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	570.7	F1	mg/Kg		57	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98559/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/24/24 19:00	1

Lab Sample ID: LCS 880-98559/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-98559/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	267.6		mg/Kg		107	90 - 110	0	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7505-9 MS
Matrix: Solid
Analysis Batch: 98688

Client Sample ID: BH - 148 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	202	F1	252	524.5	F1	mg/Kg		128	90 - 110		

Lab Sample ID: 890-7505-9 MSD
Matrix: Solid
Analysis Batch: 98688

Client Sample ID: BH - 148 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	202	F1	252	524.5	F1	mg/Kg		128	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 98598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-13	BH - 137 (3')	Total/NA	Solid	8021B	98608
890-7505-14	BH - 138 (3')	Total/NA	Solid	8021B	98608
890-7505-15	BH - 139 (3')	Total/NA	Solid	8021B	98608
MB 880-98608/5-A	Method Blank	Total/NA	Solid	8021B	98608
LCS 880-98608/1-A	Lab Control Sample	Total/NA	Solid	8021B	98608
LCSD 880-98608/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98608
880-52569-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	98608
880-52569-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98608

Analysis Batch: 98601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Total/NA	Solid	8021B	98622
890-7505-2	BH - 141 (3')	Total/NA	Solid	8021B	98622
890-7505-3	BH - 142 (3')	Total/NA	Solid	8021B	98622
890-7505-4	BH - 143 (3')	Total/NA	Solid	8021B	98622
890-7505-5	BH - 144 (3')	Total/NA	Solid	8021B	98622
890-7505-6	BH - 145 (2')	Total/NA	Solid	8021B	98622
890-7505-7	BH - 146 (2')	Total/NA	Solid	8021B	98622
890-7505-8	BH - 147 (2')	Total/NA	Solid	8021B	98622
890-7505-9	BH - 148 (2')	Total/NA	Solid	8021B	98622
890-7505-10	BH - 149 (2')	Total/NA	Solid	8021B	98622
890-7505-11	BH - 135 (3')	Total/NA	Solid	8021B	98622
890-7505-12	BH - 136 (3')	Total/NA	Solid	8021B	98622
MB 880-98622/5-A	Method Blank	Total/NA	Solid	8021B	98622
LCS 880-98622/1-A	Lab Control Sample	Total/NA	Solid	8021B	98622
LCSD 880-98622/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98622
890-7503-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	98622
890-7503-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98622

Prep Batch: 98608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-13	BH - 137 (3')	Total/NA	Solid	5035	
890-7505-14	BH - 138 (3')	Total/NA	Solid	5035	
890-7505-15	BH - 139 (3')	Total/NA	Solid	5035	
MB 880-98608/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98608/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98608/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52569-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-52569-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 98622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Total/NA	Solid	5035	
890-7505-2	BH - 141 (3')	Total/NA	Solid	5035	
890-7505-3	BH - 142 (3')	Total/NA	Solid	5035	
890-7505-4	BH - 143 (3')	Total/NA	Solid	5035	
890-7505-5	BH - 144 (3')	Total/NA	Solid	5035	
890-7505-6	BH - 145 (2')	Total/NA	Solid	5035	
890-7505-7	BH - 146 (2')	Total/NA	Solid	5035	
890-7505-8	BH - 147 (2')	Total/NA	Solid	5035	
890-7505-9	BH - 148 (2')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 98622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-10	BH - 149 (2')	Total/NA	Solid	5035	
890-7505-11	BH - 135 (3')	Total/NA	Solid	5035	
890-7505-12	BH - 136 (3')	Total/NA	Solid	5035	
MB 880-98622/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98622/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98622/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7503-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7503-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Total/NA	Solid	Total BTEX	
890-7505-2	BH - 141 (3')	Total/NA	Solid	Total BTEX	
890-7505-3	BH - 142 (3')	Total/NA	Solid	Total BTEX	
890-7505-4	BH - 143 (3')	Total/NA	Solid	Total BTEX	
890-7505-5	BH - 144 (3')	Total/NA	Solid	Total BTEX	
890-7505-6	BH - 145 (2')	Total/NA	Solid	Total BTEX	
890-7505-7	BH - 146 (2')	Total/NA	Solid	Total BTEX	
890-7505-8	BH - 147 (2')	Total/NA	Solid	Total BTEX	
890-7505-9	BH - 148 (2')	Total/NA	Solid	Total BTEX	
890-7505-10	BH - 149 (2')	Total/NA	Solid	Total BTEX	
890-7505-11	BH - 135 (3')	Total/NA	Solid	Total BTEX	
890-7505-12	BH - 136 (3')	Total/NA	Solid	Total BTEX	
890-7505-13	BH - 137 (3')	Total/NA	Solid	Total BTEX	
890-7505-14	BH - 138 (3')	Total/NA	Solid	Total BTEX	
890-7505-15	BH - 139 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Total/NA	Solid	8015NM Prep	
890-7505-2	BH - 141 (3')	Total/NA	Solid	8015NM Prep	
890-7505-3	BH - 142 (3')	Total/NA	Solid	8015NM Prep	
890-7505-4	BH - 143 (3')	Total/NA	Solid	8015NM Prep	
890-7505-5	BH - 144 (3')	Total/NA	Solid	8015NM Prep	
890-7505-6	BH - 145 (2')	Total/NA	Solid	8015NM Prep	
890-7505-7	BH - 146 (2')	Total/NA	Solid	8015NM Prep	
890-7505-8	BH - 147 (2')	Total/NA	Solid	8015NM Prep	
890-7505-9	BH - 148 (2')	Total/NA	Solid	8015NM Prep	
890-7505-10	BH - 149 (2')	Total/NA	Solid	8015NM Prep	
890-7505-11	BH - 135 (3')	Total/NA	Solid	8015NM Prep	
890-7505-12	BH - 136 (3')	Total/NA	Solid	8015NM Prep	
890-7505-13	BH - 137 (3')	Total/NA	Solid	8015NM Prep	
890-7505-14	BH - 138 (3')	Total/NA	Solid	8015NM Prep	
890-7505-15	BH - 139 (3')	Total/NA	Solid	8015NM Prep	
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7504-A-14-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7504-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 98813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Total/NA	Solid	8015B NM	98771
890-7505-2	BH - 141 (3')	Total/NA	Solid	8015B NM	98771
890-7505-3	BH - 142 (3')	Total/NA	Solid	8015B NM	98771
890-7505-4	BH - 143 (3')	Total/NA	Solid	8015B NM	98771
890-7505-5	BH - 144 (3')	Total/NA	Solid	8015B NM	98771
890-7505-6	BH - 145 (2')	Total/NA	Solid	8015B NM	98771
890-7505-7	BH - 146 (2')	Total/NA	Solid	8015B NM	98771
890-7505-8	BH - 147 (2')	Total/NA	Solid	8015B NM	98771
890-7505-9	BH - 148 (2')	Total/NA	Solid	8015B NM	98771
890-7505-10	BH - 149 (2')	Total/NA	Solid	8015B NM	98771
890-7505-11	BH - 135 (3')	Total/NA	Solid	8015B NM	98771
890-7505-12	BH - 136 (3')	Total/NA	Solid	8015B NM	98771
890-7505-13	BH - 137 (3')	Total/NA	Solid	8015B NM	98771
890-7505-14	BH - 138 (3')	Total/NA	Solid	8015B NM	98771
890-7505-15	BH - 139 (3')	Total/NA	Solid	8015B NM	98771
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015B NM	98771
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98771
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98771
890-7504-A-14-F MS	Matrix Spike	Total/NA	Solid	8015B NM	98771
890-7504-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98771

Analysis Batch: 98945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Total/NA	Solid	8015 NM	
890-7505-2	BH - 141 (3')	Total/NA	Solid	8015 NM	
890-7505-3	BH - 142 (3')	Total/NA	Solid	8015 NM	
890-7505-4	BH - 143 (3')	Total/NA	Solid	8015 NM	
890-7505-5	BH - 144 (3')	Total/NA	Solid	8015 NM	
890-7505-6	BH - 145 (2')	Total/NA	Solid	8015 NM	
890-7505-7	BH - 146 (2')	Total/NA	Solid	8015 NM	
890-7505-8	BH - 147 (2')	Total/NA	Solid	8015 NM	
890-7505-9	BH - 148 (2')	Total/NA	Solid	8015 NM	
890-7505-10	BH - 149 (2')	Total/NA	Solid	8015 NM	
890-7505-11	BH - 135 (3')	Total/NA	Solid	8015 NM	
890-7505-12	BH - 136 (3')	Total/NA	Solid	8015 NM	
890-7505-13	BH - 137 (3')	Total/NA	Solid	8015 NM	
890-7505-14	BH - 138 (3')	Total/NA	Solid	8015 NM	
890-7505-15	BH - 139 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Soluble	Solid	DI Leach	
890-7505-2	BH - 141 (3')	Soluble	Solid	DI Leach	
890-7505-3	BH - 142 (3')	Soluble	Solid	DI Leach	
890-7505-4	BH - 143 (3')	Soluble	Solid	DI Leach	
890-7505-5	BH - 144 (3')	Soluble	Solid	DI Leach	
890-7505-6	BH - 145 (2')	Soluble	Solid	DI Leach	
890-7505-7	BH - 146 (2')	Soluble	Solid	DI Leach	
890-7505-8	BH - 147 (2')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 98559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-9	BH - 148 (2')	Soluble	Solid	DI Leach	
890-7505-10	BH - 149 (2')	Soluble	Solid	DI Leach	
890-7505-11	BH - 135 (3')	Soluble	Solid	DI Leach	
890-7505-12	BH - 136 (3')	Soluble	Solid	DI Leach	
890-7505-13	BH - 137 (3')	Soluble	Solid	DI Leach	
890-7505-14	BH - 138 (3')	Soluble	Solid	DI Leach	
890-7505-15	BH - 139 (3')	Soluble	Solid	DI Leach	
MB 880-98559/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98559/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98559/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7505-9 MS	BH - 148 (2')	Soluble	Solid	DI Leach	
890-7505-9 MSD	BH - 148 (2')	Soluble	Solid	DI Leach	

Analysis Batch: 98688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7505-1	BH - 140 (3')	Soluble	Solid	300.0	98559
890-7505-2	BH - 141 (3')	Soluble	Solid	300.0	98559
890-7505-3	BH - 142 (3')	Soluble	Solid	300.0	98559
890-7505-4	BH - 143 (3')	Soluble	Solid	300.0	98559
890-7505-5	BH - 144 (3')	Soluble	Solid	300.0	98559
890-7505-6	BH - 145 (2')	Soluble	Solid	300.0	98559
890-7505-7	BH - 146 (2')	Soluble	Solid	300.0	98559
890-7505-8	BH - 147 (2')	Soluble	Solid	300.0	98559
890-7505-9	BH - 148 (2')	Soluble	Solid	300.0	98559
890-7505-10	BH - 149 (2')	Soluble	Solid	300.0	98559
890-7505-11	BH - 135 (3')	Soluble	Solid	300.0	98559
890-7505-12	BH - 136 (3')	Soluble	Solid	300.0	98559
890-7505-13	BH - 137 (3')	Soluble	Solid	300.0	98559
890-7505-14	BH - 138 (3')	Soluble	Solid	300.0	98559
890-7505-15	BH - 139 (3')	Soluble	Solid	300.0	98559
MB 880-98559/1-A	Method Blank	Soluble	Solid	300.0	98559
LCS 880-98559/2-A	Lab Control Sample	Soluble	Solid	300.0	98559
LCSD 880-98559/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98559
890-7505-9 MS	BH - 148 (2')	Soluble	Solid	300.0	98559
890-7505-9 MSD	BH - 148 (2')	Soluble	Solid	300.0	98559

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 140 (3')

Lab Sample ID: 890-7505-1
Matrix: Solid
Date Collected: 12/17/24 08:00
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 17:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 17:52	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 19:41	CH	EET MID

Client Sample ID: BH - 141 (3')

Lab Sample ID: 890-7505-2
Matrix: Solid
Date Collected: 12/17/24 08:05
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 15:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 18:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 18:08	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 19:47	CH	EET MID

Client Sample ID: BH - 142 (3')

Lab Sample ID: 890-7505-3
Matrix: Solid
Date Collected: 12/17/24 08:10
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 16:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 18:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 18:25	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 19:53	CH	EET MID

Client Sample ID: BH - 143 (3')

Lab Sample ID: 890-7505-4
Matrix: Solid
Date Collected: 12/17/24 08:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 17:00	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 143 (3')

Lab Sample ID: 890-7505-4
Matrix: Solid
Date Collected: 12/17/24 08:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98945	12/26/24 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 18:41	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 20:10	CH	EET MID

Client Sample ID: BH - 144 (3')

Lab Sample ID: 890-7505-5
Matrix: Solid
Date Collected: 12/17/24 08:20
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 18:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 18:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 20:16	CH	EET MID

Client Sample ID: BH - 145 (2')

Lab Sample ID: 890-7505-6
Matrix: Solid
Date Collected: 12/17/24 08:25
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 17:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 19:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 19:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 20:22	CH	EET MID

Client Sample ID: BH - 146 (2')

Lab Sample ID: 890-7505-7
Matrix: Solid
Date Collected: 12/17/24 08:30
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 19:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 19:30	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 146 (2')

Lab Sample ID: 890-7505-7
Matrix: Solid
Date Collected: 12/17/24 08:30
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 20:28	CH	EET MID

Client Sample ID: BH - 147 (2')

Lab Sample ID: 890-7505-8
Matrix: Solid
Date Collected: 12/17/24 08:35
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 18:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 20:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 20:01	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 20:34	CH	EET MID

Client Sample ID: BH - 148 (2')

Lab Sample ID: 890-7505-9
Matrix: Solid
Date Collected: 12/17/24 08:40
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 20:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 20:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 20:40	CH	EET MID

Client Sample ID: BH - 149 (2')

Lab Sample ID: 890-7505-10
Matrix: Solid
Date Collected: 12/17/24 08:45
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 20:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 20:33	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 20:57	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 135 (3')

Lab Sample ID: 890-7505-11
Matrix: Solid
Date Collected: 12/17/24 09:00
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 19:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 20:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 20:49	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 21:03	CH	EET MID

Client Sample ID: BH - 136 (3')

Lab Sample ID: 890-7505-12
Matrix: Solid
Date Collected: 12/17/24 09:05
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	98622	12/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98601	12/23/24 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 19:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 21:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 21:06	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 21:21	CH	EET MID

Client Sample ID: BH - 137 (3')

Lab Sample ID: 890-7505-13
Matrix: Solid
Date Collected: 12/17/24 09:10
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98608	12/23/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/23/24 16:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 21:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 21:21	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 21:27	CH	EET MID

Client Sample ID: BH - 138 (3')

Lab Sample ID: 890-7505-14
Matrix: Solid
Date Collected: 12/17/24 09:15
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98608	12/23/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/23/24 16:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 16:30	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Client Sample ID: BH - 138 (3')

Lab Sample ID: 890-7505-14

Date Collected: 12/17/24 09:15
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98945	12/26/24 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 21:37	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 21:33	CH	EET MID

Client Sample ID: BH - 139 (3')

Lab Sample ID: 890-7505-15

Date Collected: 12/17/24 09:20
Matrix: Solid
Date Received: 12/20/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98608	12/23/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/23/24 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98821	12/23/24 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			98945	12/26/24 21:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 21:53	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98559	12/21/24 14:24	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98688	12/24/24 21:39	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7505-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7505-1	BH - 140 (3')	Solid	12/17/24 08:00	12/20/24 13:45
890-7505-2	BH - 141 (3')	Solid	12/17/24 08:05	12/20/24 13:45
890-7505-3	BH - 142 (3')	Solid	12/17/24 08:10	12/20/24 13:45
890-7505-4	BH - 143 (3')	Solid	12/17/24 08:15	12/20/24 13:45
890-7505-5	BH - 144 (3')	Solid	12/17/24 08:20	12/20/24 13:45
890-7505-6	BH - 145 (2')	Solid	12/17/24 08:25	12/20/24 13:45
890-7505-7	BH - 146 (2')	Solid	12/17/24 08:30	12/20/24 13:45
890-7505-8	BH - 147 (2')	Solid	12/17/24 08:35	12/20/24 13:45
890-7505-9	BH - 148 (2')	Solid	12/17/24 08:40	12/20/24 13:45
890-7505-10	BH - 149 (2')	Solid	12/17/24 08:45	12/20/24 13:45
890-7505-11	BH - 135 (3')	Solid	12/17/24 09:00	12/20/24 13:45
890-7505-12	BH - 136 (3')	Solid	12/17/24 09:05	12/20/24 13:45
890-7505-13	BH - 137 (3')	Solid	12/17/24 09:10	12/20/24 13:45
890-7505-14	BH - 138 (3')	Solid	12/17/24 09:15	12/20/24 13:45
890-7505-15	BH - 139 (3')	Solid	12/17/24 09:20	12/20/24 13:45

Page 668 of 1592

Analysis Request of Chain of Custody Record



Page 1 of 2

12/17/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 1
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	BH-140 (3')	12/17/2024	8:00		X				X					X		X												X								
	BH-141 (3')	12/17/2024	8:05		X				X					X		X												X								
	BH-142 (3')	12/17/2024	8:10		X				X					X		X												X								
	BH-143 (3')	12/17/2024	8:15		X				X					X		X												X								
	BH-144 (3')	12/17/2024	8:20		X				X					X		X												X								
	BH-145 (2')	12/17/2024	8:25		X				X					X		X												X								
	BH-146 (2')	12/17/2024	8:30		X				X					X		X												X								
	BH-147 (2')	10/17/2024	8:35		X				X					X		X												X								
	BH-148 (2')	12/17/2024	8:40		X				X					X		X												X								
	BH-149 (2')	12/17/2024	8:45		X				X					X		X												X								

Page 30 of 43

Relinquished by:	Date: 12-20-24	Time: 1342	Received by: Date: 12/20 Time: 1345
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
TNMC7
-0.2
3.4
3.2

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 669 of 1592

Analysis Request of Chain of Custody Record

12/17/2024

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	BH-135 (3')	12/17/2024	9:00		X				X					X		X												X								
	BH-136 (3')	12/17/2024	9:05		X				X					X		X												X								
	BH-137 (3')	12/17/2024	9:10		X				X					X		X												X								
	BH-138 (3')	12/17/2024	9:15		X				X					X		X												X								
	BH-139 (3')	12/17/2024	9:20		X				X					X		X												X								

Relinquished by:	Date: 12-20-24	Time: 1342	Received by: Date: 12/20 Time: 1345
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
Tuncor
-0.2
3.4
3.2

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 30 of 43

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4445.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7505-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/27/2024			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH - 140 (3') (890-7505-1)	12/17/24	08:00 Mountain	G	Solid			X	X	X	X	X	1	
BH - 141 (3') (890-7505-2)	12/17/24	08:05 Mountain	G	Solid			X	X	X	X	X	1	
BH - 142 (3') (890-7505-3)	12/17/24	08:10 Mountain	G	Solid			X	X	X	X	X	1	
BH - 143 (3') (890-7505-4)	12/17/24	08:15 Mountain	G	Solid			X	X	X	X	X	1	
BH - 144 (3') (890-7505-5)	12/17/24	08:20 Mountain	G	Solid			X	X	X	X	X	1	
BH - 145 (2') (890-7505-6)	12/17/24	08:25 Mountain	G	Solid			X	X	X	X	X	1	
BH - 146 (2') (890-7505-7)	12/17/24	08:30 Mountain	G	Solid			X	X	X	X	X	1	
BH - 147 (2') (890-7505-8)	12/17/24	08:35 Mountain	G	Solid			X	X	X	X	X	1	
BH - 148 (2') (890-7505-9)	12/17/24	08:40 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/20 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 670 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
12/27/2024
Page 40 of 43
Released to Imaging: 6/2/2026 11:27:44 AM

Page 671 of 1592

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4445.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7505-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/27/2024			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			Other: N/A
Site: N/A	SSOW#: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH - 149 (2') (890-7505-10)	12/17/24	08:45 Mountain	G	Solid			X	X	X	X	X	1	
BH - 135 (3') (890-7505-11)	12/17/24	09:00 Mountain	G	Solid			X	X	X	X	X	1	
BH - 136 (3') (890-7505-12)	12/17/24	09:05 Mountain	G	Solid			X	X	X	X	X	1	
BH - 137 (3') (890-7505-13)	12/17/24	09:10 Mountain	G	Solid			X	X	X	X	X	1	
BH - 138 (3') (890-7505-14)	12/17/24	09:15 Mountain	G	Solid			X	X	X	X	X	1	
BH - 139 (3') (890-7505-15)	12/17/24	09:20 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		12/20 1630				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7505-1
SDG Number: Eddy County NM

Login Number: 7505
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7505-1
SDG Number: Eddy County NM

Login Number: 7505
List Number: 2
Creator: Lee, Randell

List Source: Eurofins Midland
List Creation: 12/23/24 10:06 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/30/2024 8:08:49 AM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7511-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

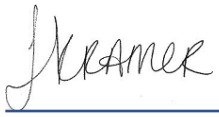
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/30/2024 8:08:49 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7511-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 18
Lab Chronicle 21
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 28

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7511-1

Job ID: 890-7511-1 Eurofins Carlsbad

Job Narrative
890-7511-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/23/2024 2:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-155 (3) (890-7511-1), SW-51 (890-7511-2), SW-52 (890-7511-3), SW-53 (890-7511-4), SW-44 (890-7511-5) and SW-45 (890-7511-6).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-98817 and analytical batch 880-98809 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-155 (3) (890-7511-1). Percent recoveries are based on the amount spiked.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98860 and analytical batch 880-98947 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Client Sample ID: BH-155 (3)

Lab Sample ID: 890-7511-1
Matrix: Solid
Date Collected: 12/18/24 09:15
Date Received: 12/23/24 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:36	12/26/24 14:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:36	12/26/24 14:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:36	12/26/24 14:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/26/24 08:36	12/26/24 14:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/26/24 08:36	12/26/24 14:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:36	12/26/24 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/26/24 08:36*	*12/26/24 14:52*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/26/24 08:36*	*12/26/24 14:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/26/24 14:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			12/26/24 15:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/26/24 11:55	12/26/24 15:26	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/26/24 11:55	12/26/24 15:26	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/26/24 11:55	12/26/24 15:26	1
Total TPH	<50.3	U	50.3		mg/Kg		12/26/24 11:55	12/26/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/26/24 11:55*	*12/26/24 15:26*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/26/24 11:55*	*12/26/24 15:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**335**		9.90		mg/Kg			12/27/24 21:52	1

Client Sample ID: SW-51

Lab Sample ID: 890-7511-2
Matrix: Solid
Date Collected: 12/20/24 08:05
Date Received: 12/23/24 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 15:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 15:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 15:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/26/24 08:36	12/26/24 15:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/26/24 08:36	12/26/24 15:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*12/26/24 08:36*	*12/26/24 15:12*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/26/24 08:36*	*12/26/24 15:12*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Client Sample ID: SW-51

Lab Sample ID: 890-7511-2
Matrix: Solid
Date Collected: 12/20/24 08:05
Date Received: 12/23/24 14:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/26/24 15:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/26/24 15:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:40	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:40	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:40	1
Total TPH	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/26/24 11:55*	*12/26/24 15:40*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/26/24 11:55*	*12/26/24 15:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		10.0		mg/Kg			12/27/24 22:00	1

Client Sample ID: SW-52

Lab Sample ID: 890-7511-3
Matrix: Solid
Date Collected: 12/20/24 08:10
Date Received: 12/23/24 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 15:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 15:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 15:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/26/24 08:36	12/26/24 15:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/26/24 08:36	12/26/24 15:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:36	12/26/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/26/24 08:36*	*12/26/24 15:33*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/26/24 08:36*	*12/26/24 15:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/24 15:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/26/24 15:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Client Sample ID: SW-52

Lab Sample ID: 890-7511-3
Matrix: Solid
Date Collected: 12/20/24 08:10
Date Received: 12/23/24 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:55	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:55	1
Total TPH	<50.4	U	50.4		mg/Kg		12/26/24 11:55	12/26/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/26/24 11:55*	*12/26/24 15:55*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/26/24 11:55*	*12/26/24 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**508**		10.0		mg/Kg			12/27/24 22:07	1

Client Sample ID: SW-53

Lab Sample ID: 890-7511-4
Matrix: Solid
Date Collected: 12/20/24 08:15
Date Received: 12/23/24 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 11:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 11:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 11:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 08:43	12/27/24 11:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 08:43	12/27/24 11:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/27/24 08:43*	*12/27/24 11:35*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/27/24 08:43*	*12/27/24 11:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 11:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/26/24 16:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 11:55	12/26/24 16:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 11:55	12/26/24 16:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 11:55	12/26/24 16:11	1
Total TPH	<49.9	U	49.9		mg/Kg		12/26/24 11:55	12/26/24 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/26/24 11:55*	*12/26/24 16:11*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/26/24 11:55*	*12/26/24 16:11*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Client Sample ID: SW-53

Lab Sample ID: 890-7511-4
Matrix: Solid
Date Collected: 12/20/24 08:15
Date Received: 12/23/24 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		9.98		mg/Kg			12/27/24 22:15	1

Client Sample ID: SW-44

Lab Sample ID: 890-7511-5
Matrix: Solid
Date Collected: 12/20/24 08:20
Date Received: 12/23/24 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 08:43	12/27/24 11:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 08:43	12/27/24 11:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 08:43	12/27/24 11:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 08:43	12/27/24 11:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 08:43	12/27/24 11:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 08:43	12/27/24 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/27/24 08:43*	*12/27/24 11:55*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/27/24 08:43*	*12/27/24 11:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 11:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 16:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 13:07	12/26/24 16:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 13:07	12/26/24 16:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 13:07	12/26/24 16:33	1
Total TPH	<49.8	U	49.8		mg/Kg		12/26/24 13:07	12/26/24 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/26/24 13:07*	*12/26/24 16:33*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/26/24 13:07*	*12/26/24 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		9.90		mg/Kg			12/27/24 22:23	1

Client Sample ID: SW-45

Lab Sample ID: 890-7511-6
Matrix: Solid
Date Collected: 12/20/24 08:25
Date Received: 12/23/24 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 12:16	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Client Sample ID: SW-45

Date Collected: 12/20/24 08:25
Date Received: 12/23/24 14:07

Lab Sample ID: 890-7511-6

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 12:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/24 08:43	12/27/24 12:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/24 08:43	12/27/24 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/27/24 08:43*	*12/27/24 12:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/27/24 08:43*	*12/27/24 12:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/24 12:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/26/24 16:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 13:07	12/26/24 16:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 13:07	12/26/24 16:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 13:07	12/26/24 16:48	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 13:07	12/26/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/26/24 13:07*	*12/26/24 16:48*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/26/24 13:07*	*12/26/24 16:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**341**		10.0		mg/Kg			12/27/24 22:31	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7509-A-1-A MS	Matrix Spike	101	96
890-7509-A-1-B MSD	Matrix Spike Duplicate	99	100
890-7511-1	BH-155 (3)	120	94
890-7511-2	SW-51	121	94
890-7511-3	SW-52	125	94
890-7511-4	SW-53	114	92
890-7511-4 MS	SW-53	100	98
890-7511-4 MSD	SW-53	98	97
890-7511-5	SW-44	116	92
890-7511-6	SW-45	119	94
LCS 880-98772/1-A	Lab Control Sample	94	101
LCS 880-98912/1-A	Lab Control Sample	104	97
LCSD 880-98772/2-A	Lab Control Sample Dup	94	100
LCSD 880-98912/2-A	Lab Control Sample Dup	100	96
MB 880-98772/5-A	Method Blank	108	83
MB 880-98912/5-A	Method Blank	107	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7511-1	BH-155 (3)	68 S1-	67 S1-
890-7511-2	SW-51	78	76
890-7511-3	SW-52	76	74
890-7511-4	SW-53	79	77
890-7511-5	SW-44	73	70
890-7511-6	SW-45	80	77
890-7512-A-1-D MS	Matrix Spike	81	75
890-7512-A-1-E MSD	Matrix Spike Duplicate	82	76
LCS 880-98817/2-A	Lab Control Sample	120	104
LCSD 880-98817/3-A	Lab Control Sample Dup	109	95
MB 880-98817/1-A	Method Blank	78	76

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98772/5-A
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 08:36	12/26/24 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:36	12/26/24 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/26/24 08:36*	*12/26/24 12:07*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*12/26/24 08:36*	*12/26/24 12:07*	*1*

Lab Sample ID: LCS 880-98772/1-A
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98772

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1093		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.09946		mg/Kg		99	70 - 130		
Toluene			0.100	0.09826		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.1977		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.1008		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-98772/2-A
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98772

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1141		mg/Kg		114	70 - 130	4	35
Ethylbenzene			0.100	0.1045		mg/Kg		105	70 - 130	5	35
Toluene			0.100	0.1035		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2076		mg/Kg		104	70 - 130	5	35
o-Xylene			0.100	0.1053		mg/Kg		105	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7509-A-1-A MS
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1039		mg/Kg		104	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.09343		mg/Kg		94	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7509-A-1-A MS
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0996	0.09379		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1856		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09443		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-7509-A-1-B MSD
Matrix: Solid
Analysis Batch: 98774

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1076		mg/Kg		107	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.101	0.09758		mg/Kg		97	70 - 130	4	35
Toluene	<0.00199	U	0.101	0.09792		mg/Kg		97	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1939		mg/Kg		96	70 - 130	4	35
o-Xylene	<0.00199	U	0.101	0.09873		mg/Kg		98	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-98912/5-A
Matrix: Solid
Analysis Batch: 98908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/27/24 08:43*	*12/27/24 11:13*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/27/24 08:43*	*12/27/24 11:13*	*1*

Lab Sample ID: LCS 880-98912/1-A
Matrix: Solid
Analysis Batch: 98908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-98912/1-A
Matrix: Solid
Analysis Batch: 98908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98912

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1037		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-98912/2-A
Matrix: Solid
Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98912

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1060		mg/Kg		106	70 - 130	0	35
Ethylbenzene			0.100	0.09858		mg/Kg		99	70 - 130	2	35
Toluene			0.100	0.09747		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130	2	35
o-Xylene			0.100	0.1023		mg/Kg		102	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-7511-4 MS
Matrix: Solid
Analysis Batch: 98908

Client Sample ID: SW-53
Prep Type: Total/NA
Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1093		mg/Kg		110	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130		
Toluene	<0.00199	U	0.0996	0.1026		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1074		mg/Kg		108	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-7511-4 MSD
Matrix: Solid
Analysis Batch: 98908

Client Sample ID: SW-53
Prep Type: Total/NA
Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1106		mg/Kg		110	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1056		mg/Kg		105	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2113		mg/Kg		105	70 - 130	0	35
o-Xylene	<0.00199	U	0.101	0.1078		mg/Kg		107	70 - 130	0	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7511-4 MSD
Matrix: Solid
Analysis Batch: 98908

Client Sample ID: SW-53
Prep Type: Total/NA
Prep Batch: 98912

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-98817/1-A
Matrix: Solid
Analysis Batch: 98809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1
Total TPH	<50.0	U	50.0		mg/Kg		12/26/24 10:00	12/26/24 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*78*		*70 - 130*	*12/26/24 10:00*	*12/26/24 11:03*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/26/24 10:00*	*12/26/24 11:03*	*1*

Lab Sample ID: LCS 880-98817/2-A
Matrix: Solid
Analysis Batch: 98809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	977.5		mg/Kg		98	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-98817/3-A
Matrix: Solid
Analysis Batch: 98809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	986.8		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	894.6		mg/Kg		89	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7512-A-1-D MS
Matrix: Solid
Analysis Batch: 98809

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 98817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	997	667.2	F1	mg/Kg		67	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U	997	734.3		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 890-7512-A-1-E MSD
Matrix: Solid
Analysis Batch: 98809

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 98817

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	997	744.4		mg/Kg		75	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<50.2	U	997	734.8		mg/Kg		74	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98860/1-A
Matrix: Solid
Analysis Batch: 98947

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/27/24 18:35	1

Lab Sample ID: LCS 880-98860/2-A
Matrix: Solid
Analysis Batch: 98947

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.4		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98860/3-A
Matrix: Solid
Analysis Batch: 98947

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.8		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7506-A-9-C MS
Matrix: Solid
Analysis Batch: 98947

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2470	F1	1240	3854	F1	mg/Kg		111	90 - 110

Lab Sample ID: 890-7506-A-9-D MSD
Matrix: Solid
Analysis Batch: 98947

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2470	F1	1240	3773		mg/Kg		105	90 - 110	2	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

GC VOA

Prep Batch: 98772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Total/NA	Solid	5035	
890-7511-2	SW-51	Total/NA	Solid	5035	
890-7511-3	SW-52	Total/NA	Solid	5035	
MB 880-98772/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98772/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98772/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7509-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7509-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Total/NA	Solid	8021B	98772
890-7511-2	SW-51	Total/NA	Solid	8021B	98772
890-7511-3	SW-52	Total/NA	Solid	8021B	98772
MB 880-98772/5-A	Method Blank	Total/NA	Solid	8021B	98772
LCS 880-98772/1-A	Lab Control Sample	Total/NA	Solid	8021B	98772
LCSD 880-98772/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98772
890-7509-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	98772
890-7509-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98772

Analysis Batch: 98908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-4	SW-53	Total/NA	Solid	8021B	98912
890-7511-5	SW-44	Total/NA	Solid	8021B	98912
890-7511-6	SW-45	Total/NA	Solid	8021B	98912
MB 880-98912/5-A	Method Blank	Total/NA	Solid	8021B	98912
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	8021B	98912
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98912
890-7511-4 MS	SW-53	Total/NA	Solid	8021B	98912
890-7511-4 MSD	SW-53	Total/NA	Solid	8021B	98912

Prep Batch: 98912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-4	SW-53	Total/NA	Solid	5035	
890-7511-5	SW-44	Total/NA	Solid	5035	
890-7511-6	SW-45	Total/NA	Solid	5035	
MB 880-98912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7511-4 MS	SW-53	Total/NA	Solid	5035	
890-7511-4 MSD	SW-53	Total/NA	Solid	5035	

Analysis Batch: 98941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Total/NA	Solid	Total BTEX	
890-7511-2	SW-51	Total/NA	Solid	Total BTEX	
890-7511-3	SW-52	Total/NA	Solid	Total BTEX	
890-7511-4	SW-53	Total/NA	Solid	Total BTEX	
890-7511-5	SW-44	Total/NA	Solid	Total BTEX	
890-7511-6	SW-45	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 98809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Total/NA	Solid	8015B NM	98817
890-7511-2	SW-51	Total/NA	Solid	8015B NM	98817
890-7511-3	SW-52	Total/NA	Solid	8015B NM	98817
890-7511-4	SW-53	Total/NA	Solid	8015B NM	98817
890-7511-5	SW-44	Total/NA	Solid	8015B NM	98817
890-7511-6	SW-45	Total/NA	Solid	8015B NM	98817
MB 880-98817/1-A	Method Blank	Total/NA	Solid	8015B NM	98817
LCS 880-98817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98817
LCSD 880-98817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98817
890-7512-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	98817
890-7512-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98817

Prep Batch: 98817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Total/NA	Solid	8015NM Prep	
890-7511-2	SW-51	Total/NA	Solid	8015NM Prep	
890-7511-3	SW-52	Total/NA	Solid	8015NM Prep	
890-7511-4	SW-53	Total/NA	Solid	8015NM Prep	
890-7511-5	SW-44	Total/NA	Solid	8015NM Prep	
890-7511-6	SW-45	Total/NA	Solid	8015NM Prep	
MB 880-98817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7512-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7512-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Total/NA	Solid	8015 NM	
890-7511-2	SW-51	Total/NA	Solid	8015 NM	
890-7511-3	SW-52	Total/NA	Solid	8015 NM	
890-7511-4	SW-53	Total/NA	Solid	8015 NM	
890-7511-5	SW-44	Total/NA	Solid	8015 NM	
890-7511-6	SW-45	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Soluble	Solid	DI Leach	
890-7511-2	SW-51	Soluble	Solid	DI Leach	
890-7511-3	SW-52	Soluble	Solid	DI Leach	
890-7511-4	SW-53	Soluble	Solid	DI Leach	
890-7511-5	SW-44	Soluble	Solid	DI Leach	
890-7511-6	SW-45	Soluble	Solid	DI Leach	
MB 880-98860/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98860/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98860/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7506-A-9-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7506-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

HPLC/IC

Analysis Batch: 98947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7511-1	BH-155 (3)	Soluble	Solid	300.0	98860
890-7511-2	SW-51	Soluble	Solid	300.0	98860
890-7511-3	SW-52	Soluble	Solid	300.0	98860
890-7511-4	SW-53	Soluble	Solid	300.0	98860
890-7511-5	SW-44	Soluble	Solid	300.0	98860
890-7511-6	SW-45	Soluble	Solid	300.0	98860
MB 880-98860/1-A	Method Blank	Soluble	Solid	300.0	98860
LCS 880-98860/2-A	Lab Control Sample	Soluble	Solid	300.0	98860
LCSD 880-98860/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98860
890-7506-A-9-C MS	Matrix Spike	Soluble	Solid	300.0	98860
890-7506-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98860

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Client Sample ID: BH-155 (3)

Lab Sample ID: 890-7511-1
Matrix: Solid
Date Collected: 12/18/24 09:15
Date Received: 12/23/24 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98772	12/26/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98774	12/26/24 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98941	12/26/24 14:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			98871	12/26/24 15:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	98817	12/26/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98809	12/26/24 15:26	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98860	12/26/24 15:54	CH	EET MID
Soluble	Analysis	300.0		1			98947	12/27/24 21:52	CH	EET MID

Client Sample ID: SW-51

Lab Sample ID: 890-7511-2
Matrix: Solid
Date Collected: 12/20/24 08:05
Date Received: 12/23/24 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98772	12/26/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98774	12/26/24 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98941	12/26/24 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			98871	12/26/24 15:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	98817	12/26/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98809	12/26/24 15:40	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98860	12/26/24 15:54	CH	EET MID
Soluble	Analysis	300.0		1			98947	12/27/24 22:00	CH	EET MID

Client Sample ID: SW-52

Lab Sample ID: 890-7511-3
Matrix: Solid
Date Collected: 12/20/24 08:10
Date Received: 12/23/24 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98772	12/26/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98774	12/26/24 15:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98941	12/26/24 15:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			98871	12/26/24 15:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	98817	12/26/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98809	12/26/24 15:55	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98860	12/26/24 15:54	CH	EET MID
Soluble	Analysis	300.0		1			98947	12/27/24 22:07	CH	EET MID

Client Sample ID: SW-53

Lab Sample ID: 890-7511-4
Matrix: Solid
Date Collected: 12/20/24 08:15
Date Received: 12/23/24 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98941	12/27/24 11:35	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Client Sample ID: SW-53

Date Collected: 12/20/24 08:15
Date Received: 12/23/24 14:07

Lab Sample ID: 890-7511-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98871	12/26/24 16:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98817	12/26/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98809	12/26/24 16:11	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98860	12/26/24 15:54	CH	EET MID
Soluble	Analysis	300.0		1			98947	12/27/24 22:15	CH	EET MID

Client Sample ID: SW-44

Date Collected: 12/20/24 08:20
Date Received: 12/23/24 14:07

Lab Sample ID: 890-7511-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98941	12/27/24 11:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			98871	12/26/24 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98817	12/26/24 13:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98809	12/26/24 16:33	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98860	12/26/24 15:54	CH	EET MID
Soluble	Analysis	300.0		1			98947	12/27/24 22:23	CH	EET MID

Client Sample ID: SW-45

Date Collected: 12/20/24 08:25
Date Received: 12/23/24 14:07

Lab Sample ID: 890-7511-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98941	12/27/24 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			98871	12/26/24 16:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98817	12/26/24 13:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98809	12/26/24 16:48	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98860	12/26/24 15:54	CH	EET MID
Soluble	Analysis	300.0		1			98947	12/27/24 22:31	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7511-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7511-1	BH-155 (3)	Solid	12/18/24 09:15	12/23/24 14:07
890-7511-2	SW-51	Solid	12/20/24 08:05	12/23/24 14:07
890-7511-3	SW-52	Solid	12/20/24 08:10	12/23/24 14:07
890-7511-4	SW-53	Solid	12/20/24 08:15	12/23/24 14:07
890-7511-5	SW-44	Solid	12/20/24 08:20	12/23/24 14:07
890-7511-6	SW-45	Solid	12/20/24 08:25	12/23/24 14:07

Page 699 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7511 Chain of Custody

12/30/2024

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				
	BH-155 (3')	12/18/2024	9:15		X				X					X		X												X							
	SW-51	12/20/2024	8:05		X				X					X		X												X							
	SW-52	12/20/2024	8:10		X				X					X		X												X							
	SW-53	12/20/2024	8:15		X				X					X		X												X							
	SW-44	12/20/2024	8:20		X				X					X		X												X							
	SW-45	12/20/2024	8:25		X				X					X		X												X							

Page 26 of 29

Relinquished by:	Date: 12-23-24	Time: 14:04	Received by: Date: 12/23 Time: 14:05
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature -6.2

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4451.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7511-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 12/30/2024			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH-155 (3) (890-7511-1)	12/18/24	09:15 Mountain	G	Solid			X	X	X	X	X	1	
SW-51 (890-7511-2)	12/20/24	08:05 Mountain	G	Solid			X	X	X	X	X	1	
SW-52 (890-7511-3)	12/20/24	08:10 Mountain	G	Solid			X	X	X	X	X	1	
SW-53 (890-7511-4)	12/20/24	08:15 Mountain	G	Solid			X	X	X	X	X	1	
SW-44 (890-7511-5)	12/20/24	08:20 Mountain	G	Solid			X	X	X	X	X	1	
SW-45 (890-7511-6)	12/20/24	08:25 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 700 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
12/30/2024
Page 27 of 29
Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7511-1
SDG Number: Eddy County NM

Login Number: 7511
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7511-1
SDG Number: Eddy County NM

Login Number: 7511
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/26/24 11:14 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 12/31/2024 4:04:51 PM

JOB DESCRIPTION

Solaris Iceman SWD

JOB NUMBER

890-7521-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

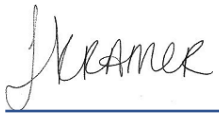
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/31/2024 4:04:51 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Laboratory Job ID: 890-7521-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Client Sample Results 8
Surrogate Summary 31
QC Sample Results 34
QC Association Summary 49
Lab Chronicle 57
Certification Summary 66
Method Summary 67
Sample Summary 68
Chain of Custody 69
Receipt Checklists 72

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Solaris Iceman SWD

Job ID: 890-7521-1

Job ID: 890-7521-1 Eurofins Carlsbad

Job Narrative
890-7521-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/30/2024 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-68 (890-7521-1), SW-30 (890-7521-2), SW-4 (890-7521-3), SW-5 (890-7521-4), SW-17 (890-7521-5), SW-13 (890-7521-6), SW-22 (890-7521-7), SW-23 (890-7521-8), SW-67 (890-7521-9), SW-20 (890-7521-10), SW-21 (890-7521-11), SW-28 (890-7521-12), SW-18 (890-7521-13), SW-19 (890-7521-14), SW-24 (890-7521-15), SW-41 (890-7521-16), BH-11 (4) (890-7521-17), BH-12 (4) (890-7521-18), BH-13 (4) (890-7521-19), BH-26 (4) (890-7521-20), BH-36 (4) (890-7521-21), BH-33 (4) (890-7521-22), BH-81 (4) (890-7521-23), BH-80 (4) (890-7521-24), BH-105 (4) (890-7521-25), BH-107 (4) (890-7521-26), SW-27 (890-7521-27) and SW-34 (890-7521-28).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-99139 recovered above the upper control limit for Ethylbenzene, Toluene, Xylenes, Total, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-99139/2).

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-99149 and analytical batch 880-99139 recovered outside control limits for the following analytes: Ethylbenzene, Toluene, m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-99146 and analytical batch 880-99143 was outside control limits. Sample non-homogeneity is suspected.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-105 (4) (890-7521-25), BH-107 (4) (890-7521-26), SW-27 (890-7521-27), SW-34 (890-7521-28), (LCS 880-99149/1-A), (LCSD 880-99149/2-A), (MB 880-99149/5-A), (890-7523-A-1-E), (890-7523-A-1-C MS) and (890-7523-A-1-D MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99161 and analytical batch 880-99162 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-28 (890-7521-12), SW-18 (890-7521-13), (890-7523-A-1-F) and (890-7523-A-1-H MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-99125/3-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Tetra Tech Inc
Project: Solaris Iceman SWD

Job ID: 890-7521-1

Job ID: 890-7521-1 (Continued) Eurofins Carlsbad

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-99125 and analytical batch 880-99166 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99125 and analytical batch 880-99166 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-19 (890-7521-14), SW-24 (890-7521-15), SW-41 (890-7521-16), BH-13 (4) (890-7521-19), BH-26 (4) (890-7521-20), (LCS 880-99158/2-A), (880-52702-A-1-B), (880-52702-A-1-C MS) and (880-52702-A-1-D MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99158 and analytical batch 880-99168 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99124/2-A) and (LCSD 880-99124/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99124 and analytical batch 880-99164 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99137 and analytical batch 880-99151 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-68

Lab Sample ID: 890-7521-1
Matrix: Solid
Date Collected: 12/27/24 08:00
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 11:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:49*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 11:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 11:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/30/24 19:16	12/31/24 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/30/24 19:16	12/31/24 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 11:15	1
Total TPH	<50.0	U F1	50.0		mg/Kg		12/30/24 19:16	12/31/24 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/30/24 19:16*	*12/31/24 11:15*	*1*
o-Terphenyl	*103*		*70 - 130*	*12/30/24 19:16*	*12/31/24 11:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**312**		10.0		mg/Kg			12/31/24 12:58	1

Client Sample ID: SW-30

Lab Sample ID: 890-7521-2
Matrix: Solid
Date Collected: 12/27/24 08:05
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 12:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 12:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/31/24 08:39*	*12/31/24 12:09*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:39*	*12/31/24 12:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-30

Lab Sample ID: 890-7521-2
Date Collected: 12/27/24 08:05
Matrix: Solid
Date Received: 12/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 12:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/30/24 19:16	12/31/24 12:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:16	12/31/24 12:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:16	12/31/24 12:04	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:16	12/31/24 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:04*	*1*
o-Terphenyl	*103*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		10.0		mg/Kg			12/31/24 13:22	1

Client Sample ID: SW-4

Lab Sample ID: 890-7521-3
Date Collected: 12/27/24 08:10
Matrix: Solid
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 12:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 12:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 12:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 12:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 12:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/31/24 08:39*	*12/31/24 12:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/31/24 08:39*	*12/31/24 12:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 12:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**52.6**		49.7		mg/Kg			12/31/24 12:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 12:20	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-4

Lab Sample ID: 890-7521-3
Matrix: Solid
Date Collected: 12/27/24 08:10
Date Received: 12/30/24 08:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**52.6**		49.7		mg/Kg		12/30/24 19:16	12/31/24 12:20	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 12:20	1
Total TPH	**52.6**		49.7		mg/Kg		12/30/24 19:16	12/31/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:20*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**573**		10.0		mg/Kg			12/31/24 13:30	1

Client Sample ID: SW-5

Lab Sample ID: 890-7521-4
Matrix: Solid
Date Collected: 12/27/24 08:15
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 12:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 12:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/31/24 08:39*	*12/31/24 12:50*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/31/24 08:39*	*12/31/24 12:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 12:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**77.4**		50.0		mg/Kg			12/31/24 12:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 12:36	1
Diesel Range Organics (Over C10-C28)	**77.4**		50.0		mg/Kg		12/30/24 19:16	12/31/24 12:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 12:36	1
Total TPH	**77.4**		50.0		mg/Kg		12/30/24 19:16	12/31/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:36*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:36*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-5

Lab Sample ID: 890-7521-4
Matrix: Solid
Date Collected: 12/27/24 08:15
Date Received: 12/30/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		9.90		mg/Kg			12/31/24 13:37	1

Client Sample ID: SW-17

Lab Sample ID: 890-7521-5
Matrix: Solid
Date Collected: 12/27/24 08:20
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:39	12/31/24 13:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:39	12/31/24 13:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:39	12/31/24 13:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/31/24 08:39	12/31/24 13:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/31/24 08:39	12/31/24 13:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:39	12/31/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:10*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/31/24 13:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 12:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 12:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 12:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 12:52	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:52*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/30/24 19:16*	*12/31/24 12:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	464		10.1		mg/Kg			12/31/24 13:45	1

Client Sample ID: SW-13

Lab Sample ID: 890-7521-6
Matrix: Solid
Date Collected: 12/27/24 08:25
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 13:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 13:31	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-13

Date Collected: 12/27/24 08:25
Date Received: 12/30/24 08:30

Lab Sample ID: 890-7521-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 13:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 13:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 13:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:31*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 13:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 13:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:08	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:08*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		10.0		mg/Kg			12/31/24 14:09	1

Client Sample ID: SW-22

Date Collected: 12/27/24 08:30
Date Received: 12/30/24 08:30

Lab Sample ID: 890-7521-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 11:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:53*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:53*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-22

Lab Sample ID: 890-7521-7
Matrix: Solid
Date Collected: 12/27/24 08:30
Date Received: 12/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 11:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 13:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:24	1
Total TPH	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:24*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**538**		9.96		mg/Kg			12/31/24 14:17	1

Client Sample ID: SW-23

Lab Sample ID: 890-7521-8
Matrix: Solid
Date Collected: 12/27/24 08:35
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 12:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 12:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:49*	*12/31/24 12:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 12:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 13:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:42	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-23

Lab Sample ID: 890-7521-8
Matrix: Solid
Date Collected: 12/27/24 08:35
Date Received: 12/30/24 08:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:42	1
Total TPH	<49.7	U	49.7		mg/Kg		12/30/24 19:16	12/31/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:42*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**419**		9.90		mg/Kg			12/31/24 14:25	1

Client Sample ID: SW-67

Lab Sample ID: 890-7521-9
Matrix: Solid
Date Collected: 12/27/24 08:40
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 12:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 12:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:49*	*12/31/24 12:34*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 13:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:57	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:16	12/31/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:57*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/30/24 19:16*	*12/31/24 13:57*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-67

Lab Sample ID: 890-7521-9
Matrix: Solid
Date Collected: 12/27/24 08:40
Date Received: 12/30/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		10.0		mg/Kg			12/31/24 14:33	1

Client Sample ID: SW-20

Lab Sample ID: 890-7521-10
Matrix: Solid
Date Collected: 12/27/24 08:45
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 12:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 12:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 12:54*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 12:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 12:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 12:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 12:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 12:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 12:52	1
Total TPH	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/31/24 10:45*	*12/31/24 12:52*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/31/24 10:45*	*12/31/24 12:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	499		10.0		mg/Kg			12/31/24 14:40	1

Client Sample ID: SW-21

Lab Sample ID: 890-7521-11
Matrix: Solid
Date Collected: 12/27/24 09:00
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 13:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 13:15	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-21

Lab Sample ID: 890-7521-11
Matrix: Solid
Date Collected: 12/27/24 09:00
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 13:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 13:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 13:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 13:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 13:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 13:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 13:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 13:08	1
Total TPH	<49.8	U	49.8		mg/Kg		12/31/24 10:45	12/31/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/31/24 10:45*	*12/31/24 13:08*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/31/24 10:45*	*12/31/24 13:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**487**		9.98		mg/Kg			12/31/24 14:48	1

Client Sample ID: SW-28

Lab Sample ID: 890-7521-12
Matrix: Solid
Date Collected: 12/27/24 09:05
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 13:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 13:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 13:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 13:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 13:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:35*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:35*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-28

Lab Sample ID: 890-7521-12
Matrix: Solid
Date Collected: 12/27/24 09:05
Date Received: 12/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 13:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			12/31/24 13:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/31/24 10:45	12/31/24 13:24	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/31/24 10:45	12/31/24 13:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/31/24 10:45	12/31/24 13:24	1
Total TPH	<50.3	U	50.3		mg/Kg		12/31/24 10:45	12/31/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*57*	*S1-*	*70 - 130*	*12/31/24 10:45*	*12/31/24 13:24*	*1*
o-Terphenyl	*56*	*S1-*	*70 - 130*	*12/31/24 10:45*	*12/31/24 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**395**		10.0		mg/Kg			12/31/24 15:12	1

Client Sample ID: SW-18

Lab Sample ID: 890-7521-13
Matrix: Solid
Date Collected: 12/27/24 09:10
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:08	1
Ethylbenzene	<0.00200	U F2	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:08	1
Xylenes, Total	<0.00399	U F2	0.00399		mg/Kg		12/31/24 08:43	12/31/24 12:08	1
m-Xylene & p-Xylene	<0.00399	U F2	0.00399		mg/Kg		12/31/24 08:43	12/31/24 12:08	1
o-Xylene	<0.00200	U F2	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*12/31/24 08:43*	*12/31/24 12:08*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/31/24 08:43*	*12/31/24 12:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 12:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**114**		50.1		mg/Kg			12/31/24 13:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		12/31/24 10:45	12/31/24 13:42	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-18

Lab Sample ID: 890-7521-13
Matrix: Solid
Date Collected: 12/27/24 09:10
Date Received: 12/30/24 08:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**114**		50.1		mg/Kg		12/31/24 10:45	12/31/24 13:42	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/31/24 10:45	12/31/24 13:42	1
Total TPH	**114**		50.1		mg/Kg		12/31/24 10:45	12/31/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*12/31/24 10:45*	*12/31/24 13:42*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*12/31/24 10:45*	*12/31/24 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**586**		10.1		mg/Kg			12/31/24 15:20	1

Client Sample ID: SW-19

Lab Sample ID: 890-7521-14
Matrix: Solid
Date Collected: 12/27/24 09:15
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 12:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 12:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 12:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:43	12/31/24 12:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:43	12/31/24 12:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/31/24 08:43*	*12/31/24 12:29*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:43*	*12/31/24 12:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 12:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 12:25	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 12:25*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 12:25*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-19

Lab Sample ID: 890-7521-14
Matrix: Solid
Date Collected: 12/27/24 09:15
Date Received: 12/30/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		10.1		mg/Kg			12/31/24 15:43	1

Client Sample ID: SW-24

Lab Sample ID: 890-7521-15
Matrix: Solid
Date Collected: 12/27/24 09:20
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:43	12/31/24 12:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:43	12/31/24 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/31/24 08:43*	*12/31/24 12:49*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/31/24 08:43*	*12/31/24 12:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 12:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 12:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 12:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 12:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 12:40	1
Total TPH	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 12:40*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 12:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		10.1		mg/Kg			12/31/24 15:51	1

Client Sample ID: SW-41

Lab Sample ID: 890-7521-16
Matrix: Solid
Date Collected: 12/27/24 09:25
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:10	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-41

Lab Sample ID: 890-7521-16
Matrix: Solid
Date Collected: 12/27/24 09:25
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:43	12/31/24 13:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:43	12/31/24 13:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/31/24 08:43*	*12/31/24 13:10*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/31/24 08:43*	*12/31/24 13:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 13:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 12:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 12:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 12:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 12:55	1
Total TPH	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 12:55*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 12:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**		10.1		mg/Kg			12/31/24 15:59	1

Client Sample ID: BH-11 (4)

Lab Sample ID: 890-7521-17
Matrix: Solid
Date Collected: 12/27/24 09:30
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:43	12/31/24 13:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:43	12/31/24 13:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:43	12/31/24 13:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:43	12/31/24 13:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:43	12/31/24 13:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:43	12/31/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/31/24 08:43*	*12/31/24 13:30*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/31/24 08:43*	*12/31/24 13:30*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-11 (4)

Lab Sample ID: 890-7521-17

Date Collected: 12/27/24 09:30
Matrix: Solid
Date Received: 12/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 13:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1480**		50.0		mg/Kg			12/31/24 13:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 13:09	1
Diesel Range Organics (Over C10-C28)	**1480**		50.0		mg/Kg		12/31/24 09:50	12/31/24 13:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 13:09	1
Total TPH	**1480**		50.0		mg/Kg		12/31/24 09:50	12/31/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/31/24 09:50*	*12/31/24 13:09*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/31/24 09:50*	*12/31/24 13:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		10.1		mg/Kg			12/31/24 16:07	1

Client Sample ID: BH-12 (4)

Lab Sample ID: 890-7521-18

Date Collected: 12/27/24 09:35
Matrix: Solid
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:43	12/31/24 13:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:43	12/31/24 13:51	1
o-Xylene	**0.00249**		0.00201		mg/Kg		12/31/24 08:43	12/31/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/31/24 08:43*	*12/31/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:43*	*12/31/24 13:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 13:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 13:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 13:24	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-12 (4)

Lab Sample ID: 890-7521-18

Date Collected: 12/27/24 09:35
Matrix: Solid
Date Received: 12/30/24 08:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 13:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 13:24	1
Total TPH	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/31/24 09:50*	*12/31/24 13:24*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/31/24 09:50*	*12/31/24 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		10.1		mg/Kg			12/31/24 16:15	1

Client Sample ID: BH-13 (4)

Lab Sample ID: 890-7521-19

Date Collected: 12/27/24 09:40
Matrix: Solid
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:44	12/31/24 11:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:44	12/31/24 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/31/24 08:44*	*12/31/24 11:54*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/31/24 08:44*	*12/31/24 11:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 11:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 13:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 13:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 13:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 13:41	1
Total TPH	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 13:41*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 13:41*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-13 (4)

Lab Sample ID: 890-7521-19
Matrix: Solid
Date Collected: 12/27/24 09:40
Date Received: 12/30/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		9.90		mg/Kg			12/31/24 16:23	1

Client Sample ID: BH-26 (4)

Lab Sample ID: 890-7521-20
Matrix: Solid
Date Collected: 12/27/24 09:45
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:44	12/31/24 12:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:44	12/31/24 12:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/31/24 08:44*	*12/31/24 12:15*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/31/24 08:44*	*12/31/24 12:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 12:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 13:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 13:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 13:55*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 13:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	518		10.1		mg/Kg			12/31/24 16:31	1

Client Sample ID: BH-36 (4)

Lab Sample ID: 890-7521-21
Matrix: Solid
Date Collected: 12/27/24 09:55
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 12:35	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-36 (4)

Date Collected: 12/27/24 09:55
Date Received: 12/30/24 08:30

Lab Sample ID: 890-7521-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 12:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:44	12/31/24 12:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:44	12/31/24 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/31/24 08:44*	*12/31/24 12:35*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/31/24 08:44*	*12/31/24 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 12:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 11:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	49.9		mg/Kg		12/30/24 19:18	12/31/24 11:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		12/30/24 19:18	12/31/24 11:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 11:39	1
Total TPH	<49.9	U F1	49.9		mg/Kg		12/30/24 19:18	12/31/24 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/30/24 19:18*	*12/31/24 11:39*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/30/24 19:18*	*12/31/24 11:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**	**F1**	10.0		mg/Kg			12/31/24 11:46	1

Client Sample ID: BH-33 (4)

Date Collected: 12/27/24 10:00
Date Received: 12/30/24 08:30

Lab Sample ID: 890-7521-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:44	12/31/24 12:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:44	12/31/24 12:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/31/24 08:44*	*12/31/24 12:56*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/31/24 08:44*	*12/31/24 12:56*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-33 (4)

Lab Sample ID: 890-7521-22

Date Collected: 12/27/24 10:00
Matrix: Solid
Date Received: 12/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 12:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		12/30/24 19:18	12/31/24 12:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 12:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 12:25	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/30/24 19:18*	*12/31/24 12:25*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/30/24 19:18*	*12/31/24 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**412**		9.98		mg/Kg			12/31/24 12:04	1

Client Sample ID: BH-81 (4)

Lab Sample ID: 890-7521-23

Date Collected: 12/27/24 10:05
Matrix: Solid
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:44	12/31/24 13:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:44	12/31/24 13:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:44	12/31/24 13:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:44	12/31/24 13:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:44	12/31/24 13:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:44	12/31/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/31/24 08:44*	*12/31/24 13:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/31/24 08:44*	*12/31/24 13:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 13:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 12:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		12/30/24 19:18	12/31/24 12:40	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-81 (4)

Lab Sample ID: 890-7521-23

Date Collected: 12/27/24 10:05
Matrix: Solid
Date Received: 12/30/24 08:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/30/24 19:18	12/31/24 12:40	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/30/24 19:18	12/31/24 12:40	1
Total TPH	<49.7	U	49.7		mg/Kg		12/30/24 19:18	12/31/24 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/30/24 19:18*	*12/31/24 12:40*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 12:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4780**		99.8		mg/Kg			12/31/24 12:10	10

Client Sample ID: BH-80 (4)

Lab Sample ID: 890-7521-24

Date Collected: 12/27/24 10:10
Matrix: Solid
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 13:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 13:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 13:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:44	12/31/24 13:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:44	12/31/24 13:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:44	12/31/24 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/31/24 08:44*	*12/31/24 13:37*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/31/24 08:44*	*12/31/24 13:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 13:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 12:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/30/24 19:18	12/31/24 12:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 12:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 12:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/30/24 19:18*	*12/31/24 12:55*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/30/24 19:18*	*12/31/24 12:55*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-80 (4)

Lab Sample ID: 890-7521-24
Matrix: Solid
Date Collected: 12/27/24 10:10
Date Received: 12/30/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3710		50.1		mg/Kg			12/31/24 12:16	5

Client Sample ID: BH-105 (4)

Lab Sample ID: 890-7521-25
Matrix: Solid
Date Collected: 12/27/24 10:15
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:47	12/31/24 13:23	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		12/31/24 08:47	12/31/24 13:23	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		12/31/24 08:47	12/31/24 13:23	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		12/31/24 08:47	12/31/24 13:23	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		12/31/24 08:47	12/31/24 13:23	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		12/31/24 08:47	12/31/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*199*	*S1+*	*70 - 130*	*12/31/24 08:47*	*12/31/24 13:23*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*12/31/24 08:47*	*12/31/24 13:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 13:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 13:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:09	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:09*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850		49.8		mg/Kg			12/31/24 12:22	5

Client Sample ID: BH-107 (4)

Lab Sample ID: 890-7521-26
Matrix: Solid
Date Collected: 12/27/24 10:20
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:47	12/31/24 13:48	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		12/31/24 08:47	12/31/24 13:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: BH-107 (4)

Lab Sample ID: 890-7521-26
Matrix: Solid
Date Collected: 12/27/24 10:20
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U *+	0.00201		mg/Kg		12/31/24 08:47	12/31/24 13:48	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		12/31/24 08:47	12/31/24 13:48	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		12/31/24 08:47	12/31/24 13:48	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		12/31/24 08:47	12/31/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*70 - 130*	*12/31/24 08:47*	*12/31/24 13:48*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*12/31/24 08:47*	*12/31/24 13:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 13:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:24	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:24*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5380**		99.6		mg/Kg			12/31/24 12:39	10

Client Sample ID: SW-27

Lab Sample ID: 890-7521-27
Matrix: Solid
Date Collected: 12/27/24 10:25
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:47	12/31/24 14:09	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		12/31/24 08:47	12/31/24 14:09	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		12/31/24 08:47	12/31/24 14:09	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		12/31/24 08:47	12/31/24 14:09	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404		mg/Kg		12/31/24 08:47	12/31/24 14:09	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		12/31/24 08:47	12/31/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*191*	*S1+*	*70 - 130*	*12/31/24 08:47*	*12/31/24 14:09*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*12/31/24 08:47*	*12/31/24 14:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-27

Lab Sample ID: 890-7521-27
Matrix: Solid
Date Collected: 12/27/24 10:25
Date Received: 12/30/24 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/31/24 14:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 13:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:41	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:41*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**685**		10.0		mg/Kg			12/31/24 12:45	1

Client Sample ID: SW-34

Lab Sample ID: 890-7521-28
Matrix: Solid
Date Collected: 12/27/24 10:30
Date Received: 12/30/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:47	12/31/24 14:29	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		12/31/24 08:47	12/31/24 14:29	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		12/31/24 08:47	12/31/24 14:29	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		12/31/24 08:47	12/31/24 14:29	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		12/31/24 08:47	12/31/24 14:29	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		12/31/24 08:47	12/31/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*191*	*S1+*	*70 - 130*	*12/31/24 08:47*	*12/31/24 14:29*	*1*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*12/31/24 08:47*	*12/31/24 14:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 13:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-34
Date Collected: 12/27/24 10:30
Date Received: 12/30/24 08:30

Lab Sample ID: 890-7521-28
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:55*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:18*	*12/31/24 13:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	609		10.0		mg/Kg			12/31/24 12:51	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-7521-1	SW-68	115	102										
890-7521-1 MS	SW-68	113	100										
890-7521-1 MSD	SW-68	109	102										
890-7521-2	SW-30	118	102										
890-7521-3	SW-4	111	104										
890-7521-4	SW-5	117	104										
890-7521-5	SW-17	117	100										
890-7521-6	SW-13	113	103										
890-7521-7	SW-22	115	95										
890-7521-7 MS	SW-22	101	99										
890-7521-7 MSD	SW-22	107	99										
890-7521-8	SW-23	99	98										
890-7521-9	SW-67	102	97										
890-7521-10	SW-20	96	98										
890-7521-11	SW-21	113	97										
890-7521-12	SW-28	105	98										
890-7521-13	SW-18	81	91										
890-7521-13 MS	SW-18	89	105										
890-7521-13 MSD	SW-18	109	92										
890-7521-14	SW-19	86	96										
890-7521-15	SW-24	87	93										
890-7521-16	SW-41	85	91										
890-7521-17	BH-11 (4)	82	94										
890-7521-18	BH-12 (4)	87	96										
890-7521-19	BH-13 (4)	118	106										
890-7521-19 MS	BH-13 (4)	110	105										
890-7521-19 MSD	BH-13 (4)	114	103										
890-7521-20	BH-26 (4)	116	107										
890-7521-21	BH-36 (4)	112	106										
890-7521-22	BH-33 (4)	112	106										
890-7521-23	BH-81 (4)	113	106										
890-7521-24	BH-80 (4)	113	106										
890-7521-25	BH-105 (4)	199 S1+	129										
890-7521-26	BH-107 (4)	190 S1+	115										
890-7521-27	SW-27	191 S1+	129										
890-7521-28	SW-34	191 S1+	130										
890-7523-A-1-C MS	Matrix Spike	177 S1+	129										
890-7523-A-1-D MSD	Matrix Spike Duplicate	177 S1+	128										
LCS 880-99145/1-A	Lab Control Sample	104	102										
LCS 880-99146/1-A	Lab Control Sample	87	102										
LCS 880-99147/1-A	Lab Control Sample	110	104										
LCS 880-99149/1-A	Lab Control Sample	173 S1+	128										
LCS 880-99150/1-A	Lab Control Sample	100	100										
LCSD 880-99145/2-A	Lab Control Sample Dup	108	97										
LCSD 880-99146/2-A	Lab Control Sample Dup	91	107										
LCSD 880-99147/2-A	Lab Control Sample Dup	113	103										
LCSD 880-99149/2-A	Lab Control Sample Dup	165 S1+	120										
LCSD 880-99150/2-A	Lab Control Sample Dup	109	97										
MB 880-99145/5-A	Method Blank	107	96										

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
MB 880-99146/5-A	Method Blank	83	92
MB 880-99147/5-A	Method Blank	112	100
MB 880-99149/5-A	Method Blank	186 S1+	123
MB 880-99150/5-A	Method Blank	89	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-52702-A-1-C MS	Matrix Spike	62 S1-	58 S1-
880-52702-A-1-D MSD	Matrix Spike Duplicate	65 S1-	59 S1-
890-7521-1	SW-68	97	103
890-7521-1 MS	SW-68	94	101
890-7521-1 MSD	SW-68	85	90
890-7521-2	SW-30	98	103
890-7521-3	SW-4	79	82
890-7521-4	SW-5	101	105
890-7521-5	SW-17	95	101
890-7521-6	SW-13	97	104
890-7521-7	SW-22	92	95
890-7521-8	SW-23	96	100
890-7521-9	SW-67	96	100
890-7521-10	SW-20	71	70
890-7521-11	SW-21	73	70
890-7521-12	SW-28	57 S1-	56 S1-
890-7521-13	SW-18	69 S1-	69 S1-
890-7521-14	SW-19	68 S1-	65 S1-
890-7521-15	SW-24	69 S1-	67 S1-
890-7521-16	SW-41	63 S1-	63 S1-
890-7521-17	BH-11 (4)	77	87
890-7521-18	BH-12 (4)	71	70
890-7521-19	BH-13 (4)	67 S1-	64 S1-
890-7521-20	BH-26 (4)	69 S1-	66 S1-
890-7521-21	BH-36 (4)	83	83
890-7521-21 MS	BH-36 (4)	76	73
890-7521-21 MSD	BH-36 (4)	76	74
890-7521-22	BH-33 (4)	75	75
890-7521-23	BH-81 (4)	77	78
890-7521-24	BH-80 (4)	81	79
890-7521-25	BH-105 (4)	82	80
890-7521-26	BH-107 (4)	79	78
890-7521-27	SW-27	80	80
890-7521-28	SW-34	81	80
890-7523-A-1-G MS	Matrix Spike	81	72
890-7523-A-1-H MSD	Matrix Spike Duplicate	67 S1-	69 S1-

Surrogate Summary

Client: Tetra Tech Inc Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
LCS 880-99124/2-A	Lab Control Sample	124	134 S1+										
LCS 880-99125/2-A	Lab Control Sample	123	110										
LCS 880-99158/2-A	Lab Control Sample	149 S1+	131 S1+										
LCS 880-99161/2-A	Lab Control Sample	97	99										
LCSD 880-99124/3-A	Lab Control Sample Dup	128	137 S1+										
LCSD 880-99125/3-A	Lab Control Sample Dup	151 S1+	134 S1+										
LCSD 880-99158/3-A	Lab Control Sample Dup	125	108										
LCSD 880-99161/3-A	Lab Control Sample Dup	99	101										
MB 880-99124/1-A	Method Blank	122	125										
MB 880-99125/1-A	Method Blank	121	121										
MB 880-99158/1-A	Method Blank	88	97										
MB 880-99161/1-A	Method Blank	81	77										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99145/5-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:27*	*1*

Lab Sample ID: LCS 880-99145/1-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1095		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1080		mg/Kg		108	70 - 130		
Toluene			0.100	0.1058		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2170		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1107		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-99145/2-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1023		mg/Kg		102	70 - 130	7	35
Ethylbenzene			0.100	0.1014		mg/Kg		101	70 - 130	6	35
Toluene			0.100	0.09858		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2051		mg/Kg		103	70 - 130	6	35
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7521-1 MS
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: SW-68
Prep Type: Total/NA
Prep Batch: 99145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09539		mg/Kg		95	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09827		mg/Kg		98	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7521-1 MS — **Client Sample ID: SW-68**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99140 — **Prep Batch: 99145**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.100	0.09363		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7521-1 MSD — **Client Sample ID: SW-68**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99140 — **Prep Batch: 99145**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09789		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09960		mg/Kg		100	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.09565		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2001		mg/Kg		100	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-99146/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99143 — **Prep Batch: 99146**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:43	12/31/24 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:43	12/31/24 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:43	12/31/24 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*12/31/24 08:43*	*12/31/24 11:46*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/31/24 08:43*	*12/31/24 11:46*	*1*

Lab Sample ID: LCS 880-99146/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99143 — **Prep Batch: 99146**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09485		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.08645		mg/Kg		86	70 - 130
Toluene	0.100	0.09467		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1696		mg/Kg		85	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-99146/1-A
Matrix: Solid
Analysis Batch: 99143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99146

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08251		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-99146/2-A
Matrix: Solid
Analysis Batch: 99143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09061		mg/Kg		91	70 - 130	5	35
Ethylbenzene			0.100	0.07967		mg/Kg		80	70 - 130	8	35
Toluene			0.100	0.08755		mg/Kg		88	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1559		mg/Kg		78	70 - 130	8	35
o-Xylene			0.100	0.07557		mg/Kg		76	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-7521-13 MS
Matrix: Solid
Analysis Batch: 99143

Client Sample ID: SW-18
Prep Type: Total/NA
Prep Batch: 99146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08415		mg/Kg		84	70 - 130		
Ethylbenzene	<0.00200	U F2	0.100	0.07293		mg/Kg		73	70 - 130		
Toluene	<0.00200	U	0.100	0.08121		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F2	0.200	0.1431		mg/Kg		72	70 - 130		
o-Xylene	<0.00200	U F2	0.100	0.06963		mg/Kg		70	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-7521-13 MSD
Matrix: Solid
Analysis Batch: 99143

Client Sample ID: SW-18
Prep Type: Total/NA
Prep Batch: 99146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1015		mg/Kg		101	70 - 130	19	35
Ethylbenzene	<0.00200	U F2	0.100	0.1218	F2	mg/Kg		122	70 - 130	50	35
Toluene	<0.00200	U	0.100	0.1158		mg/Kg		116	70 - 130	35	35
m-Xylene & p-Xylene	<0.00399	U F2	0.200	0.2354	F2	mg/Kg		118	70 - 130	49	35
o-Xylene	<0.00200	U F2	0.100	0.1130	F2	mg/Kg		113	70 - 130	47	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7521-13 MSD
Matrix: Solid
Analysis Batch: 99143

Client Sample ID: SW-18
Prep Type: Total/NA
Prep Batch: 99146

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-99147/5-A
Matrix: Solid
Analysis Batch: 99142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:44	12/31/24 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:44	12/31/24 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/31/24 08:44	12/31/24 11:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/31/24 08:44	12/31/24 11:33	1

Lab Sample ID: LCS 880-99147/1-A
Matrix: Solid
Analysis Batch: 99142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99147

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09803		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09914		mg/Kg		99	70 - 130		
Toluene			0.100	0.09820		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2029		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1050		mg/Kg		105	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-99147/2-A
Matrix: Solid
Analysis Batch: 99142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99147

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1013		mg/Kg		101	70 - 130	3	35
Ethylbenzene			0.100	0.1021		mg/Kg		102	70 - 130	3	35
Toluene			0.100	0.1018		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2085		mg/Kg		104	70 - 130	3	35
o-Xylene			0.100	0.1075		mg/Kg		107	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-99147/2-A
Matrix: Solid
Analysis Batch: 99142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99147

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-7521-19 MS
Matrix: Solid
Analysis Batch: 99142

Client Sample ID: BH-13 (4)
Prep Type: Total/NA
Prep Batch: 99147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09686		mg/Kg		97	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09625		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.100	0.09638		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-7521-19 MSD
Matrix: Solid
Analysis Batch: 99142

Client Sample ID: BH-13 (4)
Prep Type: Total/NA
Prep Batch: 99147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09383		mg/Kg		94	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09351		mg/Kg		94	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.09370		mg/Kg		94	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1902		mg/Kg		95	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.09798		mg/Kg		98	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-99149/5-A
Matrix: Solid
Analysis Batch: 99139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:47	12/31/24 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:47	12/31/24 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:47	12/31/24 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:47	12/31/24 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:47	12/31/24 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:47	12/31/24 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130	12/31/24 08:47	12/31/24 11:39	1
1,4-Difluorobenzene (Surr)	123		70 - 130	12/31/24 08:47	12/31/24 11:39	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-99149/1-A
Matrix: Solid
Analysis Batch: 99139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99149

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1217		mg/Kg		122	70 - 130		
Ethylbenzene			0.100	0.1732	*+	mg/Kg		173	70 - 130		
Toluene			0.100	0.1637	*+	mg/Kg		164	70 - 130		
m-Xylene & p-Xylene			0.200	0.3645	*+	mg/Kg		182	70 - 130		
o-Xylene			0.100	0.1878	*+	mg/Kg		188	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*

Lab Sample ID: LCSD 880-99149/2-A
Matrix: Solid
Analysis Batch: 99139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99149

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1152		mg/Kg		115	70 - 130	5	35
Ethylbenzene			0.100	0.1651	*+	mg/Kg		165	70 - 130	5	35
Toluene			0.100	0.1543	*+	mg/Kg		154	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.3490	*+	mg/Kg		174	70 - 130	4	35
o-Xylene			0.100	0.1796	*+	mg/Kg		180	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: 890-7523-A-1-C MS
Matrix: Solid
Analysis Batch: 99139

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1182		mg/Kg		118	70 - 130		
Ethylbenzene	<0.00200	U *+ F1	0.100	0.1663	F1	mg/Kg		166	70 - 130		
Toluene	<0.00200	U *+ F1	0.100	0.1589	F1	mg/Kg		159	70 - 130		
m-Xylene & p-Xylene	<0.00399	U *+ F1	0.200	0.3510	F1	mg/Kg		176	70 - 130		
o-Xylene	<0.00200	U *+ F1	0.100	0.1803	F1	mg/Kg		180	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*

Lab Sample ID: 890-7523-A-1-D MSD
Matrix: Solid
Analysis Batch: 99139

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1124		mg/Kg		112	70 - 130	5	35
Ethylbenzene	<0.00200	U *+ F1	0.100	0.1569	F1	mg/Kg		157	70 - 130	6	35
Toluene	<0.00200	U *+ F1	0.100	0.1504	F1	mg/Kg		150	70 - 130	6	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7523-A-1-D MSD
Matrix: Solid
Analysis Batch: 99139

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U *+ F1	0.200	0.3307	F1	mg/Kg		165	70 - 130	6	35
o-Xylene	<0.00200	U *+ F1	0.100	0.1691	F1	mg/Kg		169	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*

Lab Sample ID: MB 880-99150/5-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:31*	*1*

Lab Sample ID: LCS 880-99150/1-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09496		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09904		mg/Kg		99	70 - 130
Toluene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-99150/2-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99150

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09838		mg/Kg		98	70 - 130	4	35
Ethylbenzene	0.100	0.09536		mg/Kg		95	70 - 130	4	35
Toluene	0.100	0.09733		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1853		mg/Kg		93	70 - 130	4	35
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130	3	35

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-7521-7 MS — **Client Sample ID: SW-22**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99141 — **Prep Batch: 99150**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08739		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08691		mg/Kg		87	70 - 130
Toluene	<0.00200	U	0.100	0.08895		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1704		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.100	0.09174		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7521-7 MSD — **Client Sample ID: SW-22**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99141 — **Prep Batch: 99150**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09328		mg/Kg		93	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.09680		mg/Kg		97	70 - 130	11	35
Toluene	<0.00200	U	0.100	0.09848		mg/Kg		98	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1902		mg/Kg		95	70 - 130	11	35
o-Xylene	<0.00200	U	0.100	0.1009		mg/Kg		101	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-99124/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99164 — **Prep Batch: 99124**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	12/30/24 19:16	12/31/24 08:42	1
o-Terphenyl	125		70 - 130	12/30/24 19:16	12/31/24 08:42	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99124/2-A
Matrix: Solid
Analysis Batch: 99164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1137		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1198		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*134*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-99124/3-A
Matrix: Solid
Analysis Batch: 99164

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99124

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1175		mg/Kg		117	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1190		mg/Kg		119	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*137*	*S1+*	*70 - 130*

Lab Sample ID: 890-7521-1 MS
Matrix: Solid
Analysis Batch: 99164

Client Sample ID: SW-68
Prep Type: Total/NA
Prep Batch: 99124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	650.2	F1	mg/Kg		65	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	787.9		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 890-7521-1 MSD
Matrix: Solid
Analysis Batch: 99164

Client Sample ID: SW-68
Prep Type: Total/NA
Prep Batch: 99124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	585.0	F1	mg/Kg		59	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	689.4	F1	mg/Kg		69	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7521-1 MSD
Matrix: Solid
Analysis Batch: 99164

Client Sample ID: SW-68
Prep Type: Total/NA
Prep Batch: 99124

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	90		70 - 130

Lab Sample ID: MB 880-99125/1-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/30/24 19:18	12/31/24 09:55	1
o-Terphenyl	121		70 - 130	12/30/24 19:18	12/31/24 09:55	1

Lab Sample ID: LCS 880-99125/2-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	973.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1040		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-99125/3-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99125

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1233	*1	mg/Kg		123	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	1249		mg/Kg		125	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	134	S1+	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7521-21 MS
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: BH-36 (4)
Prep Type: Total/NA
Prep Batch: 99125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	640.1	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	620.7	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 890-7521-21 MSD
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: BH-36 (4)
Prep Type: Total/NA
Prep Batch: 99125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	633.7	F1	mg/Kg		63	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	583.0	F1	mg/Kg		58	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: MB 880-99158/1-A
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/31/24 09:49*	*12/31/24 09:55*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/31/24 09:49*	*12/31/24 09:55*	*1*

Lab Sample ID: LCS 880-99158/2-A
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1237		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1302		mg/Kg		130	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99158/2-A
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99158

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-99158/3-A
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99158

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1007		mg/Kg		101	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1063		mg/Kg		106	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-52702-A-1-C MS
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99158

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	465.6	F1	mg/Kg		47	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	564.2	F1	mg/Kg		57	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	62	S1-	70 - 130
o-Terphenyl	58	S1-	70 - 130

Lab Sample ID: 880-52702-A-1-D MSD
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99158

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	504.2	F1	mg/Kg		51	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	549.6	F1	mg/Kg		55	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenyl	59	S1-	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-99161/1-A
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 10:44	12/31/24 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 10:44	12/31/24 08:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 10:44	12/31/24 08:42	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 10:44	12/31/24 08:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/31/24 10:44*	*12/31/24 08:42*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/31/24 10:44*	*12/31/24 08:42*	*1*

Lab Sample ID: LCS 880-99161/2-A
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99161

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	935.8		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	877.5		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-99161/3-A
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99161

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	953.3		mg/Kg		95	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	887.6		mg/Kg		89	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 890-7523-A-1-G MS
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1010	611.7	F1	mg/Kg		61	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	642.8	F1	mg/Kg		62	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7523-A-1-G MS
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99161

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-7523-A-1-H MSD
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1010	602.2	F1	mg/Kg		60	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	657.1	F1	mg/Kg		63	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	69	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99136/1-A
Matrix: Solid
Analysis Batch: 99144

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/31/24 12:35	1

Lab Sample ID: LCS 880-99136/2-A
Matrix: Solid
Analysis Batch: 99144

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.6		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-99136/3-A
Matrix: Solid
Analysis Batch: 99144

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7521-1 MS
Matrix: Solid
Analysis Batch: 99144

Client Sample ID: SW-68
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	312		251	570.9		mg/Kg		103	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7521-1 MSD — **Client Sample ID: SW-68**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	312		251	569.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7521-11 MS — **Client Sample ID: SW-21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99144

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	487		250	746.6		mg/Kg		104	90 - 110

Lab Sample ID: 890-7521-11 MSD — **Client Sample ID: SW-21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	487		250	747.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-99137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/31/24 11:28	1

Lab Sample ID: LCS 880-99137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.0		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-99137/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	270.3		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7521-21 MS — **Client Sample ID: BH-36 (4)**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	173	F1	250	457.5	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-7521-21 MSD — **Client Sample ID: BH-36 (4)**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	173	F1	250	459.0	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

GC VOA

Analysis Batch: 99139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-25	BH-105 (4)	Total/NA	Solid	8021B	99149
890-7521-26	BH-107 (4)	Total/NA	Solid	8021B	99149
890-7521-27	SW-27	Total/NA	Solid	8021B	99149
890-7521-28	SW-34	Total/NA	Solid	8021B	99149
MB 880-99149/5-A	Method Blank	Total/NA	Solid	8021B	99149
LCS 880-99149/1-A	Lab Control Sample	Total/NA	Solid	8021B	99149
LCSD 880-99149/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99149
890-7523-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	99149
890-7523-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99149

Analysis Batch: 99140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Total/NA	Solid	8021B	99145
890-7521-2	SW-30	Total/NA	Solid	8021B	99145
890-7521-3	SW-4	Total/NA	Solid	8021B	99145
890-7521-4	SW-5	Total/NA	Solid	8021B	99145
890-7521-5	SW-17	Total/NA	Solid	8021B	99145
890-7521-6	SW-13	Total/NA	Solid	8021B	99145
MB 880-99145/5-A	Method Blank	Total/NA	Solid	8021B	99145
LCS 880-99145/1-A	Lab Control Sample	Total/NA	Solid	8021B	99145
LCSD 880-99145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99145
890-7521-1 MS	SW-68	Total/NA	Solid	8021B	99145
890-7521-1 MSD	SW-68	Total/NA	Solid	8021B	99145

Analysis Batch: 99141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-7	SW-22	Total/NA	Solid	8021B	99150
890-7521-8	SW-23	Total/NA	Solid	8021B	99150
890-7521-9	SW-67	Total/NA	Solid	8021B	99150
890-7521-10	SW-20	Total/NA	Solid	8021B	99150
890-7521-11	SW-21	Total/NA	Solid	8021B	99150
890-7521-12	SW-28	Total/NA	Solid	8021B	99150
MB 880-99150/5-A	Method Blank	Total/NA	Solid	8021B	99150
LCS 880-99150/1-A	Lab Control Sample	Total/NA	Solid	8021B	99150
LCSD 880-99150/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99150
890-7521-7 MS	SW-22	Total/NA	Solid	8021B	99150
890-7521-7 MSD	SW-22	Total/NA	Solid	8021B	99150

Analysis Batch: 99142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-19	BH-13 (4)	Total/NA	Solid	8021B	99147
890-7521-20	BH-26 (4)	Total/NA	Solid	8021B	99147
890-7521-21	BH-36 (4)	Total/NA	Solid	8021B	99147
890-7521-22	BH-33 (4)	Total/NA	Solid	8021B	99147
890-7521-23	BH-81 (4)	Total/NA	Solid	8021B	99147
890-7521-24	BH-80 (4)	Total/NA	Solid	8021B	99147
MB 880-99147/5-A	Method Blank	Total/NA	Solid	8021B	99147
LCS 880-99147/1-A	Lab Control Sample	Total/NA	Solid	8021B	99147
LCSD 880-99147/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99147
890-7521-19 MS	BH-13 (4)	Total/NA	Solid	8021B	99147
890-7521-19 MSD	BH-13 (4)	Total/NA	Solid	8021B	99147

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

GC VOA

Analysis Batch: 99143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-13	SW-18	Total/NA	Solid	8021B	99146
890-7521-14	SW-19	Total/NA	Solid	8021B	99146
890-7521-15	SW-24	Total/NA	Solid	8021B	99146
890-7521-16	SW-41	Total/NA	Solid	8021B	99146
890-7521-17	BH-11 (4)	Total/NA	Solid	8021B	99146
890-7521-18	BH-12 (4)	Total/NA	Solid	8021B	99146
MB 880-99146/5-A	Method Blank	Total/NA	Solid	8021B	99146
LCS 880-99146/1-A	Lab Control Sample	Total/NA	Solid	8021B	99146
LCSD 880-99146/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99146
890-7521-13 MS	SW-18	Total/NA	Solid	8021B	99146
890-7521-13 MSD	SW-18	Total/NA	Solid	8021B	99146

Prep Batch: 99145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Total/NA	Solid	5035	
890-7521-2	SW-30	Total/NA	Solid	5035	
890-7521-3	SW-4	Total/NA	Solid	5035	
890-7521-4	SW-5	Total/NA	Solid	5035	
890-7521-5	SW-17	Total/NA	Solid	5035	
890-7521-6	SW-13	Total/NA	Solid	5035	
MB 880-99145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-1 MS	SW-68	Total/NA	Solid	5035	
890-7521-1 MSD	SW-68	Total/NA	Solid	5035	

Prep Batch: 99146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-13	SW-18	Total/NA	Solid	5035	
890-7521-14	SW-19	Total/NA	Solid	5035	
890-7521-15	SW-24	Total/NA	Solid	5035	
890-7521-16	SW-41	Total/NA	Solid	5035	
890-7521-17	BH-11 (4)	Total/NA	Solid	5035	
890-7521-18	BH-12 (4)	Total/NA	Solid	5035	
MB 880-99146/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99146/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99146/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-13 MS	SW-18	Total/NA	Solid	5035	
890-7521-13 MSD	SW-18	Total/NA	Solid	5035	

Prep Batch: 99147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-19	BH-13 (4)	Total/NA	Solid	5035	
890-7521-20	BH-26 (4)	Total/NA	Solid	5035	
890-7521-21	BH-36 (4)	Total/NA	Solid	5035	
890-7521-22	BH-33 (4)	Total/NA	Solid	5035	
890-7521-23	BH-81 (4)	Total/NA	Solid	5035	
890-7521-24	BH-80 (4)	Total/NA	Solid	5035	
MB 880-99147/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99147/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99147/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

GC VOA (Continued)

Prep Batch: 99147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-19 MS	BH-13 (4)	Total/NA	Solid	5035	
890-7521-19 MSD	BH-13 (4)	Total/NA	Solid	5035	

Prep Batch: 99149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-25	BH-105 (4)	Total/NA	Solid	5035	
890-7521-26	BH-107 (4)	Total/NA	Solid	5035	
890-7521-27	SW-27	Total/NA	Solid	5035	
890-7521-28	SW-34	Total/NA	Solid	5035	
MB 880-99149/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99149/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99149/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7523-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7523-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 99150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-7	SW-22	Total/NA	Solid	5035	
890-7521-8	SW-23	Total/NA	Solid	5035	
890-7521-9	SW-67	Total/NA	Solid	5035	
890-7521-10	SW-20	Total/NA	Solid	5035	
890-7521-11	SW-21	Total/NA	Solid	5035	
890-7521-12	SW-28	Total/NA	Solid	5035	
MB 880-99150/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99150/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99150/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-7 MS	SW-22	Total/NA	Solid	5035	
890-7521-7 MSD	SW-22	Total/NA	Solid	5035	

Analysis Batch: 99200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Total/NA	Solid	Total BTEX	
890-7521-2	SW-30	Total/NA	Solid	Total BTEX	
890-7521-3	SW-4	Total/NA	Solid	Total BTEX	
890-7521-4	SW-5	Total/NA	Solid	Total BTEX	
890-7521-5	SW-17	Total/NA	Solid	Total BTEX	
890-7521-6	SW-13	Total/NA	Solid	Total BTEX	
890-7521-7	SW-22	Total/NA	Solid	Total BTEX	
890-7521-8	SW-23	Total/NA	Solid	Total BTEX	
890-7521-9	SW-67	Total/NA	Solid	Total BTEX	
890-7521-10	SW-20	Total/NA	Solid	Total BTEX	
890-7521-11	SW-21	Total/NA	Solid	Total BTEX	
890-7521-12	SW-28	Total/NA	Solid	Total BTEX	
890-7521-13	SW-18	Total/NA	Solid	Total BTEX	
890-7521-14	SW-19	Total/NA	Solid	Total BTEX	
890-7521-15	SW-24	Total/NA	Solid	Total BTEX	
890-7521-16	SW-41	Total/NA	Solid	Total BTEX	
890-7521-17	BH-11 (4)	Total/NA	Solid	Total BTEX	
890-7521-18	BH-12 (4)	Total/NA	Solid	Total BTEX	
890-7521-19	BH-13 (4)	Total/NA	Solid	Total BTEX	
890-7521-20	BH-26 (4)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

GC VOA (Continued)

Analysis Batch: 99200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-21	BH-36 (4)	Total/NA	Solid	Total BTEX	
890-7521-22	BH-33 (4)	Total/NA	Solid	Total BTEX	
890-7521-23	BH-81 (4)	Total/NA	Solid	Total BTEX	
890-7521-24	BH-80 (4)	Total/NA	Solid	Total BTEX	
890-7521-25	BH-105 (4)	Total/NA	Solid	Total BTEX	
890-7521-26	BH-107 (4)	Total/NA	Solid	Total BTEX	
890-7521-27	SW-27	Total/NA	Solid	Total BTEX	
890-7521-28	SW-34	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Total/NA	Solid	8015NM Prep	
890-7521-2	SW-30	Total/NA	Solid	8015NM Prep	
890-7521-3	SW-4	Total/NA	Solid	8015NM Prep	
890-7521-4	SW-5	Total/NA	Solid	8015NM Prep	
890-7521-5	SW-17	Total/NA	Solid	8015NM Prep	
890-7521-6	SW-13	Total/NA	Solid	8015NM Prep	
890-7521-7	SW-22	Total/NA	Solid	8015NM Prep	
890-7521-8	SW-23	Total/NA	Solid	8015NM Prep	
890-7521-9	SW-67	Total/NA	Solid	8015NM Prep	
MB 880-99124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7521-1 MS	SW-68	Total/NA	Solid	8015NM Prep	
890-7521-1 MSD	SW-68	Total/NA	Solid	8015NM Prep	

Prep Batch: 99125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-21	BH-36 (4)	Total/NA	Solid	8015NM Prep	
890-7521-22	BH-33 (4)	Total/NA	Solid	8015NM Prep	
890-7521-23	BH-81 (4)	Total/NA	Solid	8015NM Prep	
890-7521-24	BH-80 (4)	Total/NA	Solid	8015NM Prep	
890-7521-25	BH-105 (4)	Total/NA	Solid	8015NM Prep	
890-7521-26	BH-107 (4)	Total/NA	Solid	8015NM Prep	
890-7521-27	SW-27	Total/NA	Solid	8015NM Prep	
890-7521-28	SW-34	Total/NA	Solid	8015NM Prep	
MB 880-99125/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99125/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7521-21 MS	BH-36 (4)	Total/NA	Solid	8015NM Prep	
890-7521-21 MSD	BH-36 (4)	Total/NA	Solid	8015NM Prep	

Prep Batch: 99158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-14	SW-19	Total/NA	Solid	8015NM Prep	
890-7521-15	SW-24	Total/NA	Solid	8015NM Prep	
890-7521-16	SW-41	Total/NA	Solid	8015NM Prep	
890-7521-17	BH-11 (4)	Total/NA	Solid	8015NM Prep	
890-7521-18	BH-12 (4)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

GC Semi VOA (Continued)

Prep Batch: 99158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-19	BH-13 (4)	Total/NA	Solid	8015NM Prep	
890-7521-20	BH-26 (4)	Total/NA	Solid	8015NM Prep	
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52702-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52702-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 99161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-10	SW-20	Total/NA	Solid	8015NM Prep	
890-7521-11	SW-21	Total/NA	Solid	8015NM Prep	
890-7521-12	SW-28	Total/NA	Solid	8015NM Prep	
890-7521-13	SW-18	Total/NA	Solid	8015NM Prep	
MB 880-99161/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99161/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-10	SW-20	Total/NA	Solid	8015B NM	99161
890-7521-11	SW-21	Total/NA	Solid	8015B NM	99161
890-7521-12	SW-28	Total/NA	Solid	8015B NM	99161
890-7521-13	SW-18	Total/NA	Solid	8015B NM	99161
MB 880-99161/1-A	Method Blank	Total/NA	Solid	8015B NM	99161
LCS 880-99161/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99161
LCSD 880-99161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99161
890-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	99161
890-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99161

Analysis Batch: 99164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Total/NA	Solid	8015B NM	99124
890-7521-2	SW-30	Total/NA	Solid	8015B NM	99124
890-7521-3	SW-4	Total/NA	Solid	8015B NM	99124
890-7521-4	SW-5	Total/NA	Solid	8015B NM	99124
890-7521-5	SW-17	Total/NA	Solid	8015B NM	99124
890-7521-6	SW-13	Total/NA	Solid	8015B NM	99124
890-7521-7	SW-22	Total/NA	Solid	8015B NM	99124
890-7521-8	SW-23	Total/NA	Solid	8015B NM	99124
890-7521-9	SW-67	Total/NA	Solid	8015B NM	99124
MB 880-99124/1-A	Method Blank	Total/NA	Solid	8015B NM	99124
LCS 880-99124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99124
LCSD 880-99124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99124
890-7521-1 MS	SW-68	Total/NA	Solid	8015B NM	99124
890-7521-1 MSD	SW-68	Total/NA	Solid	8015B NM	99124

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

GC Semi VOA

Analysis Batch: 99166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-21	BH-36 (4)	Total/NA	Solid	8015B NM	99125
890-7521-22	BH-33 (4)	Total/NA	Solid	8015B NM	99125
890-7521-23	BH-81 (4)	Total/NA	Solid	8015B NM	99125
890-7521-24	BH-80 (4)	Total/NA	Solid	8015B NM	99125
890-7521-25	BH-105 (4)	Total/NA	Solid	8015B NM	99125
890-7521-26	BH-107 (4)	Total/NA	Solid	8015B NM	99125
890-7521-27	SW-27	Total/NA	Solid	8015B NM	99125
890-7521-28	SW-34	Total/NA	Solid	8015B NM	99125
MB 880-99125/1-A	Method Blank	Total/NA	Solid	8015B NM	99125
LCS 880-99125/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99125
LCSD 880-99125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99125
890-7521-21 MS	BH-36 (4)	Total/NA	Solid	8015B NM	99125
890-7521-21 MSD	BH-36 (4)	Total/NA	Solid	8015B NM	99125

Analysis Batch: 99168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-14	SW-19	Total/NA	Solid	8015B NM	99158
890-7521-15	SW-24	Total/NA	Solid	8015B NM	99158
890-7521-16	SW-41	Total/NA	Solid	8015B NM	99158
890-7521-17	BH-11 (4)	Total/NA	Solid	8015B NM	99158
890-7521-18	BH-12 (4)	Total/NA	Solid	8015B NM	99158
890-7521-19	BH-13 (4)	Total/NA	Solid	8015B NM	99158
890-7521-20	BH-26 (4)	Total/NA	Solid	8015B NM	99158
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015B NM	99158
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99158
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99158
880-52702-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	99158
880-52702-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99158

Analysis Batch: 99218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Total/NA	Solid	8015 NM	
890-7521-2	SW-30	Total/NA	Solid	8015 NM	
890-7521-3	SW-4	Total/NA	Solid	8015 NM	
890-7521-4	SW-5	Total/NA	Solid	8015 NM	
890-7521-5	SW-17	Total/NA	Solid	8015 NM	
890-7521-6	SW-13	Total/NA	Solid	8015 NM	
890-7521-7	SW-22	Total/NA	Solid	8015 NM	
890-7521-8	SW-23	Total/NA	Solid	8015 NM	
890-7521-9	SW-67	Total/NA	Solid	8015 NM	
890-7521-10	SW-20	Total/NA	Solid	8015 NM	
890-7521-11	SW-21	Total/NA	Solid	8015 NM	
890-7521-12	SW-28	Total/NA	Solid	8015 NM	
890-7521-13	SW-18	Total/NA	Solid	8015 NM	
890-7521-14	SW-19	Total/NA	Solid	8015 NM	
890-7521-15	SW-24	Total/NA	Solid	8015 NM	
890-7521-16	SW-41	Total/NA	Solid	8015 NM	
890-7521-17	BH-11 (4)	Total/NA	Solid	8015 NM	
890-7521-18	BH-12 (4)	Total/NA	Solid	8015 NM	
890-7521-19	BH-13 (4)	Total/NA	Solid	8015 NM	
890-7521-20	BH-26 (4)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

GC Semi VOA (Continued)

Analysis Batch: 99218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-21	BH-36 (4)	Total/NA	Solid	8015 NM	
890-7521-22	BH-33 (4)	Total/NA	Solid	8015 NM	
890-7521-23	BH-81 (4)	Total/NA	Solid	8015 NM	
890-7521-24	BH-80 (4)	Total/NA	Solid	8015 NM	
890-7521-25	BH-105 (4)	Total/NA	Solid	8015 NM	
890-7521-26	BH-107 (4)	Total/NA	Solid	8015 NM	
890-7521-27	SW-27	Total/NA	Solid	8015 NM	
890-7521-28	SW-34	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Soluble	Solid	DI Leach	
890-7521-2	SW-30	Soluble	Solid	DI Leach	
890-7521-3	SW-4	Soluble	Solid	DI Leach	
890-7521-4	SW-5	Soluble	Solid	DI Leach	
890-7521-5	SW-17	Soluble	Solid	DI Leach	
890-7521-6	SW-13	Soluble	Solid	DI Leach	
890-7521-7	SW-22	Soluble	Solid	DI Leach	
890-7521-8	SW-23	Soluble	Solid	DI Leach	
890-7521-9	SW-67	Soluble	Solid	DI Leach	
890-7521-10	SW-20	Soluble	Solid	DI Leach	
890-7521-11	SW-21	Soluble	Solid	DI Leach	
890-7521-12	SW-28	Soluble	Solid	DI Leach	
890-7521-13	SW-18	Soluble	Solid	DI Leach	
890-7521-14	SW-19	Soluble	Solid	DI Leach	
890-7521-15	SW-24	Soluble	Solid	DI Leach	
890-7521-16	SW-41	Soluble	Solid	DI Leach	
890-7521-17	BH-11 (4)	Soluble	Solid	DI Leach	
890-7521-18	BH-12 (4)	Soluble	Solid	DI Leach	
890-7521-19	BH-13 (4)	Soluble	Solid	DI Leach	
890-7521-20	BH-26 (4)	Soluble	Solid	DI Leach	
MB 880-99136/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99136/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99136/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7521-1 MS	SW-68	Soluble	Solid	DI Leach	
890-7521-1 MSD	SW-68	Soluble	Solid	DI Leach	
890-7521-11 MS	SW-21	Soluble	Solid	DI Leach	
890-7521-11 MSD	SW-21	Soluble	Solid	DI Leach	

Leach Batch: 99137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-21	BH-36 (4)	Soluble	Solid	DI Leach	
890-7521-22	BH-33 (4)	Soluble	Solid	DI Leach	
890-7521-23	BH-81 (4)	Soluble	Solid	DI Leach	
890-7521-24	BH-80 (4)	Soluble	Solid	DI Leach	
890-7521-25	BH-105 (4)	Soluble	Solid	DI Leach	
890-7521-26	BH-107 (4)	Soluble	Solid	DI Leach	
890-7521-27	SW-27	Soluble	Solid	DI Leach	
890-7521-28	SW-34	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

HPLC/IC (Continued)

Leach Batch: 99137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99137/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99137/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99137/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7521-21 MS	BH-36 (4)	Soluble	Solid	DI Leach	
890-7521-21 MSD	BH-36 (4)	Soluble	Solid	DI Leach	

Analysis Batch: 99144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-1	SW-68	Soluble	Solid	300.0	99136
890-7521-2	SW-30	Soluble	Solid	300.0	99136
890-7521-3	SW-4	Soluble	Solid	300.0	99136
890-7521-4	SW-5	Soluble	Solid	300.0	99136
890-7521-5	SW-17	Soluble	Solid	300.0	99136
890-7521-6	SW-13	Soluble	Solid	300.0	99136
890-7521-7	SW-22	Soluble	Solid	300.0	99136
890-7521-8	SW-23	Soluble	Solid	300.0	99136
890-7521-9	SW-67	Soluble	Solid	300.0	99136
890-7521-10	SW-20	Soluble	Solid	300.0	99136
890-7521-11	SW-21	Soluble	Solid	300.0	99136
890-7521-12	SW-28	Soluble	Solid	300.0	99136
890-7521-13	SW-18	Soluble	Solid	300.0	99136
890-7521-14	SW-19	Soluble	Solid	300.0	99136
890-7521-15	SW-24	Soluble	Solid	300.0	99136
890-7521-16	SW-41	Soluble	Solid	300.0	99136
890-7521-17	BH-11 (4)	Soluble	Solid	300.0	99136
890-7521-18	BH-12 (4)	Soluble	Solid	300.0	99136
890-7521-19	BH-13 (4)	Soluble	Solid	300.0	99136
890-7521-20	BH-26 (4)	Soluble	Solid	300.0	99136
MB 880-99136/1-A	Method Blank	Soluble	Solid	300.0	99136
LCS 880-99136/2-A	Lab Control Sample	Soluble	Solid	300.0	99136
LCSD 880-99136/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99136
890-7521-1 MS	SW-68	Soluble	Solid	300.0	99136
890-7521-1 MSD	SW-68	Soluble	Solid	300.0	99136
890-7521-11 MS	SW-21	Soluble	Solid	300.0	99136
890-7521-11 MSD	SW-21	Soluble	Solid	300.0	99136

Analysis Batch: 99151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7521-21	BH-36 (4)	Soluble	Solid	300.0	99137
890-7521-22	BH-33 (4)	Soluble	Solid	300.0	99137
890-7521-23	BH-81 (4)	Soluble	Solid	300.0	99137
890-7521-24	BH-80 (4)	Soluble	Solid	300.0	99137
890-7521-25	BH-105 (4)	Soluble	Solid	300.0	99137
890-7521-26	BH-107 (4)	Soluble	Solid	300.0	99137
890-7521-27	SW-27	Soluble	Solid	300.0	99137
890-7521-28	SW-34	Soluble	Solid	300.0	99137
MB 880-99137/1-A	Method Blank	Soluble	Solid	300.0	99137
LCS 880-99137/2-A	Lab Control Sample	Soluble	Solid	300.0	99137
LCSD 880-99137/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99137
890-7521-21 MS	BH-36 (4)	Soluble	Solid	300.0	99137
890-7521-21 MSD	BH-36 (4)	Soluble	Solid	300.0	99137

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: SW-68
Lab Sample ID: 890-7521-1
Date Collected: 12/27/24 08:00
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 11:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 11:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 12:58	CH	EET MID

Client Sample ID: SW-30
Lab Sample ID: 890-7521-2
Date Collected: 12/27/24 08:05
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 12:04	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 13:22	CH	EET MID

Client Sample ID: SW-4
Lab Sample ID: 890-7521-3
Date Collected: 12/27/24 08:10
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 12:20	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 13:30	CH	EET MID

Client Sample ID: SW-5
Lab Sample ID: 890-7521-4
Date Collected: 12/27/24 08:15
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:50	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: SW-5
Lab Sample ID: 890-7521-4
Date Collected: 12/27/24 08:15
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 12:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 13:37	CH	EET MID

Client Sample ID: SW-17
Lab Sample ID: 890-7521-5
Date Collected: 12/27/24 08:20
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 12:52	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 13:45	CH	EET MID

Client Sample ID: SW-13
Lab Sample ID: 890-7521-6
Date Collected: 12/27/24 08:25
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 13:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 14:09	CH	EET MID

Client Sample ID: SW-22
Lab Sample ID: 890-7521-7
Date Collected: 12/27/24 08:30
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 11:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 11:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 13:24	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: SW-22
Lab Sample ID: 890-7521-7
Date Collected: 12/27/24 08:30
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 14:17	CH	EET MID

Client Sample ID: SW-23
Lab Sample ID: 890-7521-8
Date Collected: 12/27/24 08:35
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 12:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 13:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 14:25	CH	EET MID

Client Sample ID: SW-67
Lab Sample ID: 890-7521-9
Date Collected: 12/27/24 08:40
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 13:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 14:33	CH	EET MID

Client Sample ID: SW-20
Lab Sample ID: 890-7521-10
Date Collected: 12/27/24 08:45
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 12:52	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 14:40	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Client Sample ID: SW-21

Lab Sample ID: 890-7521-11

Date Collected: 12/27/24 09:00
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 13:08	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 14:48	CH	EET MID

Client Sample ID: SW-28

Lab Sample ID: 890-7521-12

Date Collected: 12/27/24 09:05
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 13:24	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 15:12	CH	EET MID

Client Sample ID: SW-18

Lab Sample ID: 890-7521-13

Date Collected: 12/27/24 09:10
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99146	12/31/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99143	12/31/24 12:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	99161	12/31/24 10:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 13:42	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 15:20	CH	EET MID

Client Sample ID: SW-19

Lab Sample ID: 890-7521-14

Date Collected: 12/27/24 09:15
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99146	12/31/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99143	12/31/24 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:29	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: SW-19
Lab Sample ID: 890-7521-14
Date Collected: 12/27/24 09:15
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 12:25	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 15:43	CH	EET MID

Client Sample ID: SW-24
Lab Sample ID: 890-7521-15
Date Collected: 12/27/24 09:20
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99146	12/31/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99143	12/31/24 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 12:40	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 15:51	CH	EET MID

Client Sample ID: SW-41
Lab Sample ID: 890-7521-16
Date Collected: 12/27/24 09:25
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99146	12/31/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99143	12/31/24 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 12:55	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 15:59	CH	EET MID

Client Sample ID: BH-11 (4)
Lab Sample ID: 890-7521-17
Date Collected: 12/27/24 09:30
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99146	12/31/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99143	12/31/24 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 13:09	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: BH-11 (4)
Lab Sample ID: 890-7521-17
Date Collected: 12/27/24 09:30
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 16:07	CH	EET MID

Client Sample ID: BH-12 (4)
Lab Sample ID: 890-7521-18
Date Collected: 12/27/24 09:35
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99146	12/31/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99143	12/31/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 13:24	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 16:15	CH	EET MID

Client Sample ID: BH-13 (4)
Lab Sample ID: 890-7521-19
Date Collected: 12/27/24 09:40
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99147	12/31/24 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 11:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 11:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 13:41	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 16:23	CH	EET MID

Client Sample ID: BH-26 (4)
Lab Sample ID: 890-7521-20
Date Collected: 12/27/24 09:45
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99147	12/31/24 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 13:55	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99136	12/31/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99144	12/31/24 16:31	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: BH-36 (4)
Lab Sample ID: 890-7521-21
Date Collected: 12/27/24 09:55
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99147	12/31/24 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 11:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 11:39	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 11:46	CH	EET MID

Client Sample ID: BH-33 (4)
Lab Sample ID: 890-7521-22
Date Collected: 12/27/24 10:00
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99147	12/31/24 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 12:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 12:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 12:04	CH	EET MID

Client Sample ID: BH-81 (4)
Lab Sample ID: 890-7521-23
Date Collected: 12/27/24 10:05
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99147	12/31/24 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 12:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99151	12/31/24 12:10	CH	EET MID

Client Sample ID: BH-80 (4)
Lab Sample ID: 890-7521-24
Date Collected: 12/27/24 10:10
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99147	12/31/24 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99142	12/31/24 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:37	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: BH-80 (4)
Lab Sample ID: 890-7521-24
Date Collected: 12/27/24 10:10
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99218	12/31/24 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 12:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99151	12/31/24 12:16	CH	EET MID

Client Sample ID: BH-105 (4)
Lab Sample ID: 890-7521-25
Date Collected: 12/27/24 10:15
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99149	12/31/24 08:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99139	12/31/24 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 13:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99151	12/31/24 12:22	CH	EET MID

Client Sample ID: BH-107 (4)
Lab Sample ID: 890-7521-26
Date Collected: 12/27/24 10:20
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99149	12/31/24 08:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99139	12/31/24 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 13:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99151	12/31/24 12:39	CH	EET MID

Client Sample ID: SW-27
Lab Sample ID: 890-7521-27
Date Collected: 12/27/24 10:25
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99149	12/31/24 08:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99139	12/31/24 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 13:41	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Client Sample ID: SW-27
Lab Sample ID: 890-7521-27
Date Collected: 12/27/24 10:25
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 12:45	CH	EET MID

Client Sample ID: SW-34
Lab Sample ID: 890-7521-28
Date Collected: 12/27/24 10:30
Matrix: Solid
Date Received: 12/30/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99149	12/31/24 08:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99139	12/31/24 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99200	12/31/24 14:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			99218	12/31/24 13:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 13:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 12:51	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Job ID: 890-7521-1
Project/Site: Solaris Iceman SWD

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Solaris Iceman SWD

Job ID: 890-7521-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7521-1	SW-68	Solid	12/27/24 08:00	12/30/24 08:30
890-7521-2	SW-30	Solid	12/27/24 08:05	12/30/24 08:30
890-7521-3	SW-4	Solid	12/27/24 08:10	12/30/24 08:30
890-7521-4	SW-5	Solid	12/27/24 08:15	12/30/24 08:30
890-7521-5	SW-17	Solid	12/27/24 08:20	12/30/24 08:30
890-7521-6	SW-13	Solid	12/27/24 08:25	12/30/24 08:30
890-7521-7	SW-22	Solid	12/27/24 08:30	12/30/24 08:30
890-7521-8	SW-23	Solid	12/27/24 08:35	12/30/24 08:30
890-7521-9	SW-67	Solid	12/27/24 08:40	12/30/24 08:30
890-7521-10	SW-20	Solid	12/27/24 08:45	12/30/24 08:30
890-7521-11	SW-21	Solid	12/27/24 09:00	12/30/24 08:30
890-7521-12	SW-28	Solid	12/27/24 09:05	12/30/24 08:30
890-7521-13	SW-18	Solid	12/27/24 09:10	12/30/24 08:30
890-7521-14	SW-19	Solid	12/27/24 09:15	12/30/24 08:30
890-7521-15	SW-24	Solid	12/27/24 09:20	12/30/24 08:30
890-7521-16	SW-41	Solid	12/27/24 09:25	12/30/24 08:30
890-7521-17	BH-11 (4)	Solid	12/27/24 09:30	12/30/24 08:30
890-7521-18	BH-12 (4)	Solid	12/27/24 09:35	12/30/24 08:30
890-7521-19	BH-13 (4)	Solid	12/27/24 09:40	12/30/24 08:30
890-7521-20	BH-26 (4)	Solid	12/27/24 09:45	12/30/24 08:30
890-7521-21	BH-36 (4)	Solid	12/27/24 09:55	12/30/24 08:30
890-7521-22	BH-33 (4)	Solid	12/27/24 10:00	12/30/24 08:30
890-7521-23	BH-81 (4)	Solid	12/27/24 10:05	12/30/24 08:30
890-7521-24	BH-80 (4)	Solid	12/27/24 10:10	12/30/24 08:30
890-7521-25	BH-105 (4)	Solid	12/27/24 10:15	12/30/24 08:30
890-7521-26	BH-107 (4)	Solid	12/27/24 10:20	12/30/24 08:30
890-7521-27	SW-27	Solid	12/27/24 10:25	12/30/24 08:30
890-7521-28	SW-34	Solid	12/27/24 10:30	12/30/24 08:30

Page 771 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7521 Chain of Custody

12/31/2024

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	SW-68	12/27/2024	8:00		X			X			X			X												X				
	SW-30	12/27/2024	8:05		X			X			X			X												X				
	SW-4	12/27/2024	8:10		X			X			X			X												X				
	SW-5	12/27/2024	8:15		X			X			X			X												X				
	SW-17	12/27/2024	8:20		X			X			X			X												X				
	SW-13	12/27/2024	8:25		X			X			X			X												X				
	SW-22	12/27/2024	8:30		X			X			X			X												X				
	SW-23	12/27/2024	8:35		X			X			X			X												X				
	SW-67	12/27/2024	8:40		X			X			X			X												X				
	SW-20	12/27/2024	8:45		X			X			X			X												X				

Relinquished by: Date: 12.27.24 Time:

Received by: Date: 12/27 Time: 16 55

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature
Tmeas
-0.2
3.2
3.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 60 of 72

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 772 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	SW-21	12/27/2024	9:00		X			X			X		X													X								
	SW-28	12/27/2024	9:05		X			X			X		X													X								
	SW-18	12/27/2024	9:10		X			X			X		X													X								
	SW-19	12/27/2024	9:15		X			X			X		X													X								
	SW-24	12/27/2024	9:20		X			X			X		X													X								
	SW-41	12/27/2024	9:25		X			X			X		X													X								
	BH-11 (4')	12/27/2024	9:30		X			X			X		X													X								
	BH-12 (4')	12/27/2024	9:35		X			X			X		X													X								
	BH-13 (4')	12/27/2024	9:40		X			X			X		X													X								
	BH-26 (4')	12/27/2024	9:45		X			X			X		X													X								

Relinquished by: Date: 12.27.24 Time:

Received by: Date: 12/27 Time: 16:55

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature
Trip Blank -0.2
3.2
3.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 70 of 73

12/31/2024

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 773 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Culberson County TX	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-36 (4')	12/27/2024	9:55		X				X					X		X												X							
	BH-33 (4')	12/27/2024	10:00		X				X					X		X												X							
	BH-81 (4')	12/27/2024	10:05		X				X					X		X												X							
	BH-80 (4')	12/27/2024	10:10		X				X					X		X												X							
	BH-105 (4')	12/27/2024	10:15		X				X					X		X												X							
	BH-107 (4')	12/27/2024	10:20		X				X					X		X												X							
	SW-27	12/27/2024	10:25		X				X					X		X												X							
	SW-34	12/27/2024	10:30		X				X					X		X												X							

Relinquished by:	Date: 12.27.24	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 12/27 Time: 1655

LAB USE ONLY

Sample Temperature
TR 1007
-0.2 3.2
3.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM
12/31/2024
Page 71 of 73

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7521-1
SDG Number:

Login Number: 7521
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7521-1
SDG Number:

Login Number: 7521
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/30/24 08:58 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 1/2/2025 1:43:43 PM

JOB DESCRIPTION

ICEMAN SWD
212C - MD - 03085

JOB NUMBER

890-7522-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

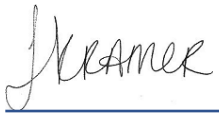
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/2/2025 1:43:43 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7522-1
SDG: 212C - MD - 03085

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 29
QC Sample Results 31
QC Association Summary 40
Lab Chronicle 47
Certification Summary 56
Method Summary 57
Sample Summary 58
Chain of Custody 59
Receipt Checklists 65

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7522-1

Job ID: 890-7522-1 Eurofins Carlsbad

Job Narrative
890-7522-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/27/2024 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions
The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): BH - 181 (3') (890-7522-1), BH - 179 (4') (890-7522-2), BH - 178 (4') (890-7522-3), BH - 182 (3') (890-7522-4), BH - 180 (3') (890-7522-5), BH - 202 (3') (890-7522-6), BH - 196 (3') (890-7522-7), BH - 198 (3') (890-7522-8), BH - 199 (3') (890-7522-9), BH - 200 (3') (890-7522-10), BH - 201 (3') (890-7522-11), BH - 214 (3') (890-7522-12), BH - 213 (3') (890-7522-13), BH - 212 (3') (890-7522-14), BH - 215 (3') (890-7522-15), BH - 205 (3') (890-7522-16), BH - 206 (3') (890-7522-17), BH - 204 (3') (890-7522-18), BH - 208 (3') (890-7522-19), BH - 210 (3') (890-7522-20), BH - 211 (3') (890-7522-21), BH - 207 (3') (890-7522-22), BH - 209 (3') (890-7522-23), BH - 196 (3') (890-7522-24), BH - 197 (3') (890-7522-25), BH - 193 (3') (890-7522-26), BH - 194 (3') (890-7522-27), BH - 195 (3') (890-7522-28) and BH - 203 (3') (890-7522-29)

The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 181 (3') (890-7522-1), BH - 179 (4') (890-7522-2), BH - 178 (4') (890-7522-3), BH - 182 (3') (890-7522-4), BH - 180 (3') (890-7522-5), BH - 202 (3') (890-7522-6), BH - 196 (3') (890-7522-7), BH - 198 (3') (890-7522-8), BH - 199 (3') (890-7522-9), BH - 200 (3') (890-7522-10), BH - 201 (3') (890-7522-11), BH - 214 (3') (890-7522-12), BH - 213 (3') (890-7522-13), BH - 212 (3') (890-7522-14), BH - 215 (3') (890-7522-15), BH - 205 (3') (890-7522-16), BH - 206 (3') (890-7522-17), BH - 204 (3') (890-7522-18), BH - 208 (3') (890-7522-19), BH - 210 (3') (890-7522-20), BH - 211 (3') (890-7522-21), BH - 207 (3') (890-7522-22), BH - 209 (3') (890-7522-23), BH - 196 (3') (890-7522-24), BH - 197 (3') (890-7522-25), BH - 193 (3') (890-7522-26), BH - 194 (3') (890-7522-27), BH - 195 (3') (890-7522-28) and BH - 203 (3') (890-7522-29).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-99125/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-99125 and analytical batch 880-99166 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99125 and analytical batch 880-99166 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH - 200 (3') (890-7522-10), (LCS 880-99158/2-A), (880-52702-A-1-B), (880-52702-A-1-C MS) and (880-52702-A-1-D MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH - 196 (3') (890-7522-7). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7522-1

Job ID: 890-7522-1 (Continued) Eurofins Carlsbad

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99158 and analytical batch 880-99168 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99126 and analytical batch 880-99162 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH - 210 (3') (890-7522-20). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99138 and analytical batch 880-99157 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: BH - 200 (3') (890-7522-10), BH - 201 (3') (890-7522-11), BH - 214 (3') (890-7522-12), BH - 213 (3') (890-7522-13), BH - 212 (3') (890-7522-14), BH - 215 (3') (890-7522-15), BH - 205 (3') (890-7522-16), BH - 206 (3') (890-7522-17), BH - 204 (3') (890-7522-18), BH - 208 (3') (890-7522-19), (890-7522-A-10-C MS) and (890-7522-A-10-D MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99138 and analytical batch 880-99157 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: BH - 210 (3') (890-7522-20), BH - 211 (3') (890-7522-21), BH - 207 (3') (890-7522-22), BH - 209 (3') (890-7522-23), BH - 197 (3') (890-7522-25), BH - 193 (3') (890-7522-26), BH - 194 (3') (890-7522-27), BH - 195 (3') (890-7522-28), BH - 203 (3') (890-7522-29), (890-7522-A-20-C MS) and (890-7522-A-20-D MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 181 (3')

Lab Sample ID: 890-7522-1
Matrix: Solid
Date Collected: 12/27/24 11:00
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/31/24 13:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:10*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		10.0		mg/Kg			12/31/24 12:57	1

Client Sample ID: BH - 179 (4')

Lab Sample ID: 890-7522-2
Matrix: Solid
Date Collected: 12/27/24 11:05
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:16*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 179 (4')

Lab Sample ID: 890-7522-2
Matrix: Solid
Date Collected: 12/27/24 11:05
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 14:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:26*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.3**		9.94		mg/Kg			12/31/24 13:03	1

Client Sample ID: BH - 178 (4')

Lab Sample ID: 890-7522-3
Matrix: Solid
Date Collected: 12/27/24 11:10
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 178 (4')

Lab Sample ID: 890-7522-3
Matrix: Solid
Date Collected: 12/27/24 11:10
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:41*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.96		mg/Kg			12/31/24 13:09	1

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Matrix: Solid
Date Collected: 12/27/24 11:15
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 14:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:55*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:55*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Matrix: Solid
Date Collected: 12/27/24 11:15
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		10.1		mg/Kg			12/31/24 13:27	1

Client Sample ID: BH - 180 (3')

Lab Sample ID: 890-7522-5
Matrix: Solid
Date Collected: 12/27/24 11:20
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:31*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:10*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		10.0		mg/Kg			12/31/24 13:33	1

Client Sample ID: BH - 202 (3')

Lab Sample ID: 890-7522-6
Matrix: Solid
Date Collected: 12/27/24 11:25
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 202 (3')

Lab Sample ID: 890-7522-6
Date Collected: 12/27/24 11:25
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:52*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 15:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:25*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**234**		10.0		mg/Kg			12/31/24 13:50	1

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7
Date Collected: 12/27/24 11:30
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:12*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7
Matrix: Solid
Date Collected: 12/27/24 11:30
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1
Total TPH	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:10*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		9.96		mg/Kg			12/31/24 13:56	1

Client Sample ID: BH - 199 (3')

Lab Sample ID: 890-7522-9
Matrix: Solid
Date Collected: 12/27/24 11:40
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/31/24 17:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 199 (3')

Lab Sample ID: 890-7522-9
Matrix: Solid
Date Collected: 12/27/24 11:40
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1
Total TPH	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:26*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		9.94		mg/Kg			12/31/24 14:02	1

Client Sample ID: BH - 200 (3')

Lab Sample ID: 890-7522-10
Matrix: Solid
Date Collected: 12/27/24 11:45
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:53*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 14:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 14:41*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 14:41*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 200 (3')

Lab Sample ID: 890-7522-10
Matrix: Solid
Date Collected: 12/27/24 11:45
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147	F1	10.1		mg/Kg			12/31/24 15:13	1

Client Sample ID: BH - 201 (3')

Lab Sample ID: 890-7522-11
Matrix: Solid
Date Collected: 12/27/24 11:50
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:14*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 18:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 14:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1
Total TPH	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:55*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.7		10.1		mg/Kg			12/31/24 15:31	1

Client Sample ID: BH - 214 (3')

Lab Sample ID: 890-7522-12
Matrix: Solid
Date Collected: 12/27/24 11:55
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 214 (3')

Lab Sample ID: 890-7522-12
Matrix: Solid
Date Collected: 12/27/24 11:55
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:34*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1
Total TPH	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:10*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		10.0		mg/Kg			12/31/24 15:37	1

Client Sample ID: BH - 213 (3')

Lab Sample ID: 890-7522-13
Matrix: Solid
Date Collected: 12/27/24 12:00
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:55*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 213 (3')

Lab Sample ID: 890-7522-13
Matrix: Solid
Date Collected: 12/27/24 12:00
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 15:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1
Total TPH	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:25*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**176**		10.1		mg/Kg			12/31/24 15:43	1

Client Sample ID: BH - 212 (3')

Lab Sample ID: 890-7522-14
Matrix: Solid
Date Collected: 12/27/24 12:05
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/31/24 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**90.2**		50.0		mg/Kg			12/31/24 17:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 212 (3')

Lab Sample ID: 890-7522-14
Matrix: Solid
Date Collected: 12/27/24 12:05
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**90.2**	**F1**	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1
Total TPH	**90.2**	**F1**	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 17:48*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/30/24 19:21*	*12/31/24 17:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**807**		10.1		mg/Kg			12/31/24 15:48	1

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15
Matrix: Solid
Date Collected: 12/27/24 12:10
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 19:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 18:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:35*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:35*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15
Matrix: Solid
Date Collected: 12/27/24 12:10
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		10.1		mg/Kg			12/31/24 16:06	1

Client Sample ID: BH - 205 (3')

Lab Sample ID: 890-7522-16
Matrix: Solid
Date Collected: 12/27/24 12:15
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 13:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 18:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:52*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		10.0		mg/Kg			12/31/24 16:12	1

Client Sample ID: BH - 206 (3')

Lab Sample ID: 890-7522-17
Matrix: Solid
Date Collected: 12/27/24 12:20
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 206 (3')

Lab Sample ID: 890-7522-17
Matrix: Solid
Date Collected: 12/27/24 12:20
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:12*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 19:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:08*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.7**		10.1		mg/Kg			12/31/24 16:18	1

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Matrix: Solid
Date Collected: 12/27/24 12:25
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:32*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Matrix: Solid
Date Collected: 12/27/24 12:25
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 19:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:25*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		10.0		mg/Kg			12/31/24 16:24	1

Client Sample ID: BH - 208 (3')

Lab Sample ID: 890-7522-19
Matrix: Solid
Date Collected: 12/27/24 12:30
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:53*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 14:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 19:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 208 (3')

Lab Sample ID: 890-7522-19
Date Collected: 12/27/24 12:30
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:40*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		9.90		mg/Kg			12/31/24 16:30	1

Client Sample ID: BH - 210 (3')

Lab Sample ID: 890-7522-20
Date Collected: 12/27/24 12:35
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 16:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 19:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:57*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*12/30/24 19:21*	*12/31/24 19:57*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 210 (3')

Lab Sample ID: 890-7522-20
Matrix: Solid
Date Collected: 12/27/24 12:35
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.0	F1	10.1		mg/Kg			12/31/24 16:36	1

Client Sample ID: BH - 211 (3')

Lab Sample ID: 890-7522-21
Matrix: Solid
Date Collected: 12/27/24 12:40
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 16:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 20:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:13*	*1*
o-Terphenyl	*85*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		9.96		mg/Kg			12/31/24 16:53	1

Client Sample ID: BH - 207 (3')

Lab Sample ID: 890-7522-22
Matrix: Solid
Date Collected: 12/27/24 12:45
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 207 (3')

Lab Sample ID: 890-7522-22
Matrix: Solid
Date Collected: 12/27/24 12:45
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 20:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1
Total TPH	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:30*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		10.0		mg/Kg			12/31/24 16:59	1

Client Sample ID: BH - 209 (3')

Lab Sample ID: 890-7522-23
Matrix: Solid
Date Collected: 12/27/24 12:50
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:27*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:27*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 209 (3')

Lab Sample ID: 890-7522-23
Matrix: Solid
Date Collected: 12/27/24 12:50
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/31/24 17:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 20:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:45*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		10.1		mg/Kg			12/31/24 17:17	1

Client Sample ID: BH - 197 (3')

Lab Sample ID: 890-7522-25
Matrix: Solid
Date Collected: 12/27/24 01:00
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:48*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 17:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 21:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 197 (3')

Lab Sample ID: 890-7522-25
Matrix: Solid
Date Collected: 12/27/24 01:00
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:17*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		10.1		mg/Kg			12/31/24 17:23	1

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26
Matrix: Solid
Date Collected: 12/27/24 01:05
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:08*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 18:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 21:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:34*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:34*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26
Matrix: Solid
Date Collected: 12/27/24 01:05
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		10.0		mg/Kg			12/31/24 17:29	1

Client Sample ID: BH - 194 (3')

Lab Sample ID: 890-7522-27
Matrix: Solid
Date Collected: 12/27/24 01:10
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:28*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/31/24 18:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 21:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:49*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		10.0		mg/Kg			12/31/24 17:35	1

Client Sample ID: BH - 195 (3')

Lab Sample ID: 890-7522-28
Matrix: Solid
Date Collected: 12/27/24 01:15
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 195 (3')

Lab Sample ID: 890-7522-28
Date Collected: 12/27/24 01:15
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:49*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 18:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 22:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:06*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		10.1		mg/Kg			12/31/24 17:40	1

Client Sample ID: BH - 203 (3')

Lab Sample ID: 890-7522-29
Date Collected: 12/27/24 00:00
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/31/24 08:39*	*12/31/24 19:09*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:39*	*12/31/24 19:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 203 (3')

Date Collected: 12/27/24 00:00
Date Received: 12/27/24 16:55

Lab Sample ID: 890-7522-29

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 19:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 22:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:21*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**286**		10.0		mg/Kg			12/31/24 17:46	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7521-A-1-G MS	Matrix Spike	113	100
890-7521-A-1-H MSD	Matrix Spike Duplicate	109	102
890-7521-A-7-C MS	Matrix Spike	101	99
890-7521-A-7-D MSD	Matrix Spike Duplicate	107	99
890-7522-1	BH - 181 (3')	101	101
890-7522-2	BH - 179 (4')	111	96
890-7522-3	BH - 178 (4')	105	96
890-7522-4	BH - 182 (3')	109	96
890-7522-5	BH - 180 (3')	102	97
890-7522-6	BH - 202 (3')	116	99
890-7522-7	BH - 196 (3')	99	101
890-7522-9	BH - 199 (3')	109	98
890-7522-10	BH - 200 (3')	106	98
890-7522-11	BH - 201 (3')	111	96
890-7522-12	BH - 214 (3')	93	97
890-7522-13	BH - 213 (3')	102	98
890-7522-14	BH - 212 (3')	98	97
890-7522-15	BH - 215 (3')	105	98
890-7522-16	BH - 205 (3')	117	99
890-7522-17	BH - 206 (3')	118	102
890-7522-18	BH - 204 (3')	108	103
890-7522-19	BH - 208 (3')	114	103
890-7522-20	BH - 210 (3')	112	105
890-7522-21	BH - 211 (3')	112	101
890-7522-22	BH - 207 (3')	116	103
890-7522-23	BH - 209 (3')	115	99
890-7522-25	BH - 197 (3')	118	103
890-7522-26	BH - 193 (3')	114	103
890-7522-27	BH - 194 (3')	117	103
890-7522-28	BH - 195 (3')	115	103
890-7522-29	BH - 203 (3')	116	101
LCS 880-99145/1-A	Lab Control Sample	104	102
LCS 880-99150/1-A	Lab Control Sample	100	100
LCSD 880-99145/2-A	Lab Control Sample Dup	108	97
LCSD 880-99150/2-A	Lab Control Sample Dup	109	97
MB 880-99145/5-A	Method Blank	107	96
MB 880-99150/5-A	Method Blank	89	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-52702-A-1-C MS	Matrix Spike	62 S1-	58 S1-
880-52702-A-1-D MSD	Matrix Spike Duplicate	65 S1-	59 S1-

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-7521-A-21-B MS	Matrix Spike	76	73								
890-7521-A-21-C MSD	Matrix Spike Duplicate	76	74								
890-7522-1	BH - 181 (3')	74	74								
890-7522-2	BH - 179 (4')	71	71								
890-7522-3	BH - 178 (4')	75	75								
890-7522-4	BH - 182 (3')	78	78								
890-7522-5	BH - 180 (3')	78	76								
890-7522-6	BH - 202 (3')	79	80								
890-7522-7	BH - 196 (3')	71	70								
890-7522-9	BH - 199 (3')	72	70								
890-7522-10	BH - 200 (3')	69 S1-	68 S1-								
890-7522-11	BH - 201 (3')	77	76								
890-7522-12	BH - 214 (3')	79	77								
890-7522-13	BH - 213 (3')	86	84								
890-7522-14	BH - 212 (3')	74	71								
890-7522-14 MS	BH - 212 (3')	76	77								
890-7522-14 MSD	BH - 212 (3')	75	75								
890-7522-15	BH - 215 (3')	80	79								
890-7522-16	BH - 205 (3')	76	75								
890-7522-17	BH - 206 (3')	75	76								
890-7522-18	BH - 204 (3')	73	73								
890-7522-19	BH - 208 (3')	82	80								
890-7522-20	BH - 210 (3')	71	69 S1-								
890-7522-21	BH - 211 (3')	84	85								
890-7522-22	BH - 207 (3')	83	80								
890-7522-23	BH - 209 (3')	81	79								
890-7522-25	BH - 197 (3')	78	77								
890-7522-26	BH - 193 (3')	73	71								
890-7522-27	BH - 194 (3')	74	74								
890-7522-28	BH - 195 (3')	77	75								
890-7522-29	BH - 203 (3')	75	74								
LCS 880-99125/2-A	Lab Control Sample	123	110								
LCS 880-99126/2-A	Lab Control Sample	98	98								
LCS 880-99158/2-A	Lab Control Sample	149 S1+	131 S1+								
LCSD 880-99125/3-A	Lab Control Sample Dup	151 S1+	134 S1+								
LCSD 880-99126/3-A	Lab Control Sample Dup	105	104								
LCSD 880-99158/3-A	Lab Control Sample Dup	125	108								
MB 880-99125/1-A	Method Blank	121	121								
MB 880-99126/1-A	Method Blank	82	77								
MB 880-99158/1-A	Method Blank	88	97								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99145/5-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:27*	*1*

Lab Sample ID: LCS 880-99145/1-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1095		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1080		mg/Kg		108	70 - 130		
Toluene			0.100	0.1058		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2170		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1107		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-99145/2-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1023		mg/Kg		102	70 - 130	7	35
Ethylbenzene			0.100	0.1014		mg/Kg		101	70 - 130	6	35
Toluene			0.100	0.09858		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2051		mg/Kg		103	70 - 130	6	35
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7521-A-1-G MS
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09539		mg/Kg		95	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09827		mg/Kg		98	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7521-A-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99140 — **Prep Batch: 99145**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.100	0.09363		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7521-A-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99140 — **Prep Batch: 99145**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09789		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09960		mg/Kg		100	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.09565		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2001		mg/Kg		100	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-99150/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99141 — **Prep Batch: 99150**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:31*	*1*

Lab Sample ID: LCS 880-99150/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99141 — **Prep Batch: 99150**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09496		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09904		mg/Kg		99	70 - 130
Toluene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-99150/1-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99150

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1042		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-99150/2-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99150

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09838		mg/Kg		98	70 - 130	4	35
Ethylbenzene			0.100	0.09536		mg/Kg		95	70 - 130	4	35
Toluene			0.100	0.09733		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1853		mg/Kg		93	70 - 130	4	35
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7521-A-7-C MS
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08739		mg/Kg		87	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08691		mg/Kg		87	70 - 130		
Toluene	<0.00200	U	0.100	0.08895		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1704		mg/Kg		85	70 - 130		
o-Xylene	<0.00200	U	0.100	0.09174		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7521-A-7-D MSD
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09328		mg/Kg		93	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.09680		mg/Kg		97	70 - 130	11	35
Toluene	<0.00200	U	0.100	0.09848		mg/Kg		98	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1902		mg/Kg		95	70 - 130	11	35
o-Xylene	<0.00200	U	0.100	0.1009		mg/Kg		101	70 - 130	9	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7521-A-7-D MSD
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99150

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-99125/1-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/30/24 19:18	12/31/24 09:55	1
o-Terphenyl	121		70 - 130	12/30/24 19:18	12/31/24 09:55	1

Lab Sample ID: LCS 880-99125/2-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	973.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1040		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-99125/3-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99125

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1233	*1	mg/Kg		123	70 - 130	24	20
Diesel Range Organics (Over C10-C28)			1000	1249		mg/Kg		125	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	134	S1+	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7521-A-21-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99166 — **Prep Batch: 99125**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	640.1	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	620.7	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 890-7521-A-21-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99166 — **Prep Batch: 99125**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	633.7	F1	mg/Kg		63	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	583.0	F1	mg/Kg		58	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: MB 880-99126/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99162 — **Prep Batch: 99126**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/30/24 19:21*	*12/31/24 16:43*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/30/24 19:21*	*12/31/24 16:43*	*1*

Lab Sample ID: LCS 880-99126/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99162 — **Prep Batch: 99126**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	979.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	871.0		mg/Kg		87	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99126/2-A
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-99126/3-A
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99126

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	922.2		mg/Kg		92	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-7522-14 MS
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: BH - 212 (3')
Prep Type: Total/NA
Prep Batch: 99126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	561.6	F1	mg/Kg		56	70 - 130		
Diesel Range Organics (Over C10-C28)	90.2	F1	997	585.2	F1	mg/Kg		50	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 890-7522-14 MSD
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: BH - 212 (3')
Prep Type: Total/NA
Prep Batch: 99126

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	541.1	F1	mg/Kg		54	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	90.2	F1	997	578.7	F1	mg/Kg		49	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-99158/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/31/24 09:49*	*12/31/24 09:55*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/31/24 09:49*	*12/31/24 09:55*	*1*

Lab Sample ID: LCS 880-99158/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1237		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1302		mg/Kg		130	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*149*	*S1+*	*70 - 130*
o-Terphenyl	*131*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-99158/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1007		mg/Kg		101	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1063		mg/Kg		106	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*125*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 880-52702-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	465.6	F1	mg/Kg		47	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	564.2	F1	mg/Kg		57	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-52702-A-1-C MS
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99158

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	62	S1-	70 - 130
o-Terphenyl	58	S1-	70 - 130

Lab Sample ID: 880-52702-A-1-D MSD
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99158

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	504.2	F1	mg/Kg		51	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	549.6	F1	mg/Kg		55	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenyl	59	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99137/1-A
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/31/24 11:28	1

Lab Sample ID: LCS 880-99137/2-A
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.0		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-99137/3-A
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	270.3		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7522-3 MS
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: BH - 178 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	111		249	385.0		mg/Kg		110	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7522-3 MSD — **Client Sample ID: BH - 178 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	111		249	385.7		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-99138/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/31/24 14:55	1

Lab Sample ID: LCS 880-99138/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	270.9		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-99138/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	271.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7522-10 MS — **Client Sample ID: BH - 200 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	147	F1	252	459.9	F1	mg/Kg		124	90 - 110

Lab Sample ID: 890-7522-10 MSD — **Client Sample ID: BH - 200 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	147	F1	252	459.4	F1	mg/Kg		124	90 - 110	0	20

Lab Sample ID: 890-7522-20 MS — **Client Sample ID: BH - 210 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	92.0	F1	252	387.3	F1	mg/Kg		117	90 - 110

Lab Sample ID: 890-7522-20 MSD — **Client Sample ID: BH - 210 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	92.0	F1	252	388.1	F1	mg/Kg		117	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC VOA

Analysis Batch: 99140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-16	BH - 205 (3')	Total/NA	Solid	8021B	99145
890-7522-17	BH - 206 (3')	Total/NA	Solid	8021B	99145
890-7522-18	BH - 204 (3')	Total/NA	Solid	8021B	99145
890-7522-19	BH - 208 (3')	Total/NA	Solid	8021B	99145
890-7522-20	BH - 210 (3')	Total/NA	Solid	8021B	99145
890-7522-21	BH - 211 (3')	Total/NA	Solid	8021B	99145
890-7522-22	BH - 207 (3')	Total/NA	Solid	8021B	99145
890-7522-23	BH - 209 (3')	Total/NA	Solid	8021B	99145
890-7522-25	BH - 197 (3')	Total/NA	Solid	8021B	99145
890-7522-26	BH - 193 (3')	Total/NA	Solid	8021B	99145
890-7522-27	BH - 194 (3')	Total/NA	Solid	8021B	99145
890-7522-28	BH - 195 (3')	Total/NA	Solid	8021B	99145
890-7522-29	BH - 203 (3')	Total/NA	Solid	8021B	99145
MB 880-99145/5-A	Method Blank	Total/NA	Solid	8021B	99145
LCS 880-99145/1-A	Lab Control Sample	Total/NA	Solid	8021B	99145
LCSD 880-99145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99145
890-7521-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	99145
890-7521-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99145

Analysis Batch: 99141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8021B	99150
890-7522-2	BH - 179 (4')	Total/NA	Solid	8021B	99150
890-7522-3	BH - 178 (4')	Total/NA	Solid	8021B	99150
890-7522-4	BH - 182 (3')	Total/NA	Solid	8021B	99150
890-7522-5	BH - 180 (3')	Total/NA	Solid	8021B	99150
890-7522-6	BH - 202 (3')	Total/NA	Solid	8021B	99150
890-7522-7	BH - 196 (3')	Total/NA	Solid	8021B	99150
890-7522-9	BH - 199 (3')	Total/NA	Solid	8021B	99150
890-7522-10	BH - 200 (3')	Total/NA	Solid	8021B	99150
890-7522-11	BH - 201 (3')	Total/NA	Solid	8021B	99150
890-7522-12	BH - 214 (3')	Total/NA	Solid	8021B	99150
890-7522-13	BH - 213 (3')	Total/NA	Solid	8021B	99150
890-7522-14	BH - 212 (3')	Total/NA	Solid	8021B	99150
890-7522-15	BH - 215 (3')	Total/NA	Solid	8021B	99150
MB 880-99150/5-A	Method Blank	Total/NA	Solid	8021B	99150
LCS 880-99150/1-A	Lab Control Sample	Total/NA	Solid	8021B	99150
LCSD 880-99150/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99150
890-7521-A-7-C MS	Matrix Spike	Total/NA	Solid	8021B	99150
890-7521-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99150

Prep Batch: 99145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-16	BH - 205 (3')	Total/NA	Solid	5035	
890-7522-17	BH - 206 (3')	Total/NA	Solid	5035	
890-7522-18	BH - 204 (3')	Total/NA	Solid	5035	
890-7522-19	BH - 208 (3')	Total/NA	Solid	5035	
890-7522-20	BH - 210 (3')	Total/NA	Solid	5035	
890-7522-21	BH - 211 (3')	Total/NA	Solid	5035	
890-7522-22	BH - 207 (3')	Total/NA	Solid	5035	
890-7522-23	BH - 209 (3')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC VOA (Continued)

Prep Batch: 99145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-25	BH - 197 (3')	Total/NA	Solid	5035	
890-7522-26	BH - 193 (3')	Total/NA	Solid	5035	
890-7522-27	BH - 194 (3')	Total/NA	Solid	5035	
890-7522-28	BH - 195 (3')	Total/NA	Solid	5035	
890-7522-29	BH - 203 (3')	Total/NA	Solid	5035	
MB 880-99145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-7521-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 99150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	5035	
890-7522-2	BH - 179 (4')	Total/NA	Solid	5035	
890-7522-3	BH - 178 (4')	Total/NA	Solid	5035	
890-7522-4	BH - 182 (3')	Total/NA	Solid	5035	
890-7522-5	BH - 180 (3')	Total/NA	Solid	5035	
890-7522-6	BH - 202 (3')	Total/NA	Solid	5035	
890-7522-7	BH - 196 (3')	Total/NA	Solid	5035	
890-7522-9	BH - 199 (3')	Total/NA	Solid	5035	
890-7522-10	BH - 200 (3')	Total/NA	Solid	5035	
890-7522-11	BH - 201 (3')	Total/NA	Solid	5035	
890-7522-12	BH - 214 (3')	Total/NA	Solid	5035	
890-7522-13	BH - 213 (3')	Total/NA	Solid	5035	
890-7522-14	BH - 212 (3')	Total/NA	Solid	5035	
890-7522-15	BH - 215 (3')	Total/NA	Solid	5035	
MB 880-99150/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99150/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99150/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-A-7-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7521-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	Total BTEX	
890-7522-2	BH - 179 (4')	Total/NA	Solid	Total BTEX	
890-7522-3	BH - 178 (4')	Total/NA	Solid	Total BTEX	
890-7522-4	BH - 182 (3')	Total/NA	Solid	Total BTEX	
890-7522-5	BH - 180 (3')	Total/NA	Solid	Total BTEX	
890-7522-6	BH - 202 (3')	Total/NA	Solid	Total BTEX	
890-7522-7	BH - 196 (3')	Total/NA	Solid	Total BTEX	
890-7522-9	BH - 199 (3')	Total/NA	Solid	Total BTEX	
890-7522-10	BH - 200 (3')	Total/NA	Solid	Total BTEX	
890-7522-11	BH - 201 (3')	Total/NA	Solid	Total BTEX	
890-7522-12	BH - 214 (3')	Total/NA	Solid	Total BTEX	
890-7522-13	BH - 213 (3')	Total/NA	Solid	Total BTEX	
890-7522-14	BH - 212 (3')	Total/NA	Solid	Total BTEX	
890-7522-15	BH - 215 (3')	Total/NA	Solid	Total BTEX	
890-7522-16	BH - 205 (3')	Total/NA	Solid	Total BTEX	
890-7522-17	BH - 206 (3')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC VOA (Continued)

Analysis Batch: 99211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-18	BH - 204 (3')	Total/NA	Solid	Total BTEX	
890-7522-19	BH - 208 (3')	Total/NA	Solid	Total BTEX	
890-7522-20	BH - 210 (3')	Total/NA	Solid	Total BTEX	
890-7522-21	BH - 211 (3')	Total/NA	Solid	Total BTEX	
890-7522-22	BH - 207 (3')	Total/NA	Solid	Total BTEX	
890-7522-23	BH - 209 (3')	Total/NA	Solid	Total BTEX	
890-7522-25	BH - 197 (3')	Total/NA	Solid	Total BTEX	
890-7522-26	BH - 193 (3')	Total/NA	Solid	Total BTEX	
890-7522-27	BH - 194 (3')	Total/NA	Solid	Total BTEX	
890-7522-28	BH - 195 (3')	Total/NA	Solid	Total BTEX	
890-7522-29	BH - 203 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8015NM Prep	
890-7522-2	BH - 179 (4')	Total/NA	Solid	8015NM Prep	
890-7522-3	BH - 178 (4')	Total/NA	Solid	8015NM Prep	
890-7522-4	BH - 182 (3')	Total/NA	Solid	8015NM Prep	
890-7522-5	BH - 180 (3')	Total/NA	Solid	8015NM Prep	
890-7522-6	BH - 202 (3')	Total/NA	Solid	8015NM Prep	
MB 880-99125/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99125/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7521-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7521-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 99126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-14	BH - 212 (3')	Total/NA	Solid	8015NM Prep	
890-7522-15	BH - 215 (3')	Total/NA	Solid	8015NM Prep	
890-7522-16	BH - 205 (3')	Total/NA	Solid	8015NM Prep	
890-7522-17	BH - 206 (3')	Total/NA	Solid	8015NM Prep	
890-7522-18	BH - 204 (3')	Total/NA	Solid	8015NM Prep	
890-7522-19	BH - 208 (3')	Total/NA	Solid	8015NM Prep	
890-7522-20	BH - 210 (3')	Total/NA	Solid	8015NM Prep	
890-7522-21	BH - 211 (3')	Total/NA	Solid	8015NM Prep	
890-7522-22	BH - 207 (3')	Total/NA	Solid	8015NM Prep	
890-7522-23	BH - 209 (3')	Total/NA	Solid	8015NM Prep	
890-7522-25	BH - 197 (3')	Total/NA	Solid	8015NM Prep	
890-7522-26	BH - 193 (3')	Total/NA	Solid	8015NM Prep	
890-7522-27	BH - 194 (3')	Total/NA	Solid	8015NM Prep	
890-7522-28	BH - 195 (3')	Total/NA	Solid	8015NM Prep	
890-7522-29	BH - 203 (3')	Total/NA	Solid	8015NM Prep	
MB 880-99126/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99126/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7522-14 MS	BH - 212 (3')	Total/NA	Solid	8015NM Prep	
890-7522-14 MSD	BH - 212 (3')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC Semi VOA

Prep Batch: 99158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-7	BH - 196 (3')	Total/NA	Solid	8015NM Prep	
890-7522-9	BH - 199 (3')	Total/NA	Solid	8015NM Prep	
890-7522-10	BH - 200 (3')	Total/NA	Solid	8015NM Prep	
890-7522-11	BH - 201 (3')	Total/NA	Solid	8015NM Prep	
890-7522-12	BH - 214 (3')	Total/NA	Solid	8015NM Prep	
890-7522-13	BH - 213 (3')	Total/NA	Solid	8015NM Prep	
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52702-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52702-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-14	BH - 212 (3')	Total/NA	Solid	8015B NM	99126
890-7522-15	BH - 215 (3')	Total/NA	Solid	8015B NM	99126
890-7522-16	BH - 205 (3')	Total/NA	Solid	8015B NM	99126
890-7522-17	BH - 206 (3')	Total/NA	Solid	8015B NM	99126
890-7522-18	BH - 204 (3')	Total/NA	Solid	8015B NM	99126
890-7522-19	BH - 208 (3')	Total/NA	Solid	8015B NM	99126
890-7522-20	BH - 210 (3')	Total/NA	Solid	8015B NM	99126
890-7522-21	BH - 211 (3')	Total/NA	Solid	8015B NM	99126
890-7522-22	BH - 207 (3')	Total/NA	Solid	8015B NM	99126
890-7522-23	BH - 209 (3')	Total/NA	Solid	8015B NM	99126
890-7522-25	BH - 197 (3')	Total/NA	Solid	8015B NM	99126
890-7522-26	BH - 193 (3')	Total/NA	Solid	8015B NM	99126
890-7522-27	BH - 194 (3')	Total/NA	Solid	8015B NM	99126
890-7522-28	BH - 195 (3')	Total/NA	Solid	8015B NM	99126
890-7522-29	BH - 203 (3')	Total/NA	Solid	8015B NM	99126
MB 880-99126/1-A	Method Blank	Total/NA	Solid	8015B NM	99126
LCS 880-99126/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99126
LCSD 880-99126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99126
890-7522-14 MS	BH - 212 (3')	Total/NA	Solid	8015B NM	99126
890-7522-14 MSD	BH - 212 (3')	Total/NA	Solid	8015B NM	99126

Analysis Batch: 99166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8015B NM	99125
890-7522-2	BH - 179 (4')	Total/NA	Solid	8015B NM	99125
890-7522-3	BH - 178 (4')	Total/NA	Solid	8015B NM	99125
890-7522-4	BH - 182 (3')	Total/NA	Solid	8015B NM	99125
890-7522-5	BH - 180 (3')	Total/NA	Solid	8015B NM	99125
890-7522-6	BH - 202 (3')	Total/NA	Solid	8015B NM	99125
MB 880-99125/1-A	Method Blank	Total/NA	Solid	8015B NM	99125
LCS 880-99125/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99125
LCSD 880-99125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99125
890-7521-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	99125
890-7521-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99125

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC Semi VOA

Analysis Batch: 99168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-7	BH - 196 (3')	Total/NA	Solid	8015B NM	99158
890-7522-9	BH - 199 (3')	Total/NA	Solid	8015B NM	99158
890-7522-10	BH - 200 (3')	Total/NA	Solid	8015B NM	99158
890-7522-11	BH - 201 (3')	Total/NA	Solid	8015B NM	99158
890-7522-12	BH - 214 (3')	Total/NA	Solid	8015B NM	99158
890-7522-13	BH - 213 (3')	Total/NA	Solid	8015B NM	99158
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015B NM	99158
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99158
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99158
880-52702-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	99158
880-52702-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99158

Analysis Batch: 99221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8015 NM	
890-7522-2	BH - 179 (4')	Total/NA	Solid	8015 NM	
890-7522-3	BH - 178 (4')	Total/NA	Solid	8015 NM	
890-7522-4	BH - 182 (3')	Total/NA	Solid	8015 NM	
890-7522-5	BH - 180 (3')	Total/NA	Solid	8015 NM	
890-7522-6	BH - 202 (3')	Total/NA	Solid	8015 NM	
890-7522-7	BH - 196 (3')	Total/NA	Solid	8015 NM	
890-7522-9	BH - 199 (3')	Total/NA	Solid	8015 NM	
890-7522-10	BH - 200 (3')	Total/NA	Solid	8015 NM	
890-7522-11	BH - 201 (3')	Total/NA	Solid	8015 NM	
890-7522-12	BH - 214 (3')	Total/NA	Solid	8015 NM	
890-7522-13	BH - 213 (3')	Total/NA	Solid	8015 NM	
890-7522-14	BH - 212 (3')	Total/NA	Solid	8015 NM	
890-7522-15	BH - 215 (3')	Total/NA	Solid	8015 NM	
890-7522-16	BH - 205 (3')	Total/NA	Solid	8015 NM	
890-7522-17	BH - 206 (3')	Total/NA	Solid	8015 NM	
890-7522-18	BH - 204 (3')	Total/NA	Solid	8015 NM	
890-7522-19	BH - 208 (3')	Total/NA	Solid	8015 NM	
890-7522-20	BH - 210 (3')	Total/NA	Solid	8015 NM	
890-7522-21	BH - 211 (3')	Total/NA	Solid	8015 NM	
890-7522-22	BH - 207 (3')	Total/NA	Solid	8015 NM	
890-7522-23	BH - 209 (3')	Total/NA	Solid	8015 NM	
890-7522-25	BH - 197 (3')	Total/NA	Solid	8015 NM	
890-7522-26	BH - 193 (3')	Total/NA	Solid	8015 NM	
890-7522-27	BH - 194 (3')	Total/NA	Solid	8015 NM	
890-7522-28	BH - 195 (3')	Total/NA	Solid	8015 NM	
890-7522-29	BH - 203 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Soluble	Solid	DI Leach	
890-7522-2	BH - 179 (4')	Soluble	Solid	DI Leach	
890-7522-3	BH - 178 (4')	Soluble	Solid	DI Leach	
890-7522-4	BH - 182 (3')	Soluble	Solid	DI Leach	
890-7522-5	BH - 180 (3')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Leach Batch: 99137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-6	BH - 202 (3')	Soluble	Solid	DI Leach	
890-7522-7	BH - 196 (3')	Soluble	Solid	DI Leach	
890-7522-9	BH - 199 (3')	Soluble	Solid	DI Leach	
MB 880-99137/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99137/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99137/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7522-3 MS	BH - 178 (4')	Soluble	Solid	DI Leach	
890-7522-3 MSD	BH - 178 (4')	Soluble	Solid	DI Leach	

Leach Batch: 99138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-10	BH - 200 (3')	Soluble	Solid	DI Leach	
890-7522-11	BH - 201 (3')	Soluble	Solid	DI Leach	
890-7522-12	BH - 214 (3')	Soluble	Solid	DI Leach	
890-7522-13	BH - 213 (3')	Soluble	Solid	DI Leach	
890-7522-14	BH - 212 (3')	Soluble	Solid	DI Leach	
890-7522-15	BH - 215 (3')	Soluble	Solid	DI Leach	
890-7522-16	BH - 205 (3')	Soluble	Solid	DI Leach	
890-7522-17	BH - 206 (3')	Soluble	Solid	DI Leach	
890-7522-18	BH - 204 (3')	Soluble	Solid	DI Leach	
890-7522-19	BH - 208 (3')	Soluble	Solid	DI Leach	
890-7522-20	BH - 210 (3')	Soluble	Solid	DI Leach	
890-7522-21	BH - 211 (3')	Soluble	Solid	DI Leach	
890-7522-22	BH - 207 (3')	Soluble	Solid	DI Leach	
890-7522-23	BH - 209 (3')	Soluble	Solid	DI Leach	
890-7522-25	BH - 197 (3')	Soluble	Solid	DI Leach	
890-7522-26	BH - 193 (3')	Soluble	Solid	DI Leach	
890-7522-27	BH - 194 (3')	Soluble	Solid	DI Leach	
890-7522-28	BH - 195 (3')	Soluble	Solid	DI Leach	
890-7522-29	BH - 203 (3')	Soluble	Solid	DI Leach	
MB 880-99138/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99138/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99138/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7522-10 MS	BH - 200 (3')	Soluble	Solid	DI Leach	
890-7522-10 MSD	BH - 200 (3')	Soluble	Solid	DI Leach	
890-7522-20 MS	BH - 210 (3')	Soluble	Solid	DI Leach	
890-7522-20 MSD	BH - 210 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 99151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Soluble	Solid	300.0	99137
890-7522-2	BH - 179 (4')	Soluble	Solid	300.0	99137
890-7522-3	BH - 178 (4')	Soluble	Solid	300.0	99137
890-7522-4	BH - 182 (3')	Soluble	Solid	300.0	99137
890-7522-5	BH - 180 (3')	Soluble	Solid	300.0	99137
890-7522-6	BH - 202 (3')	Soluble	Solid	300.0	99137
890-7522-7	BH - 196 (3')	Soluble	Solid	300.0	99137
890-7522-9	BH - 199 (3')	Soluble	Solid	300.0	99137
MB 880-99137/1-A	Method Blank	Soluble	Solid	300.0	99137
LCS 880-99137/2-A	Lab Control Sample	Soluble	Solid	300.0	99137
LCSD 880-99137/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99137

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Analysis Batch: 99151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-3 MS	BH - 178 (4')	Soluble	Solid	300.0	99137
890-7522-3 MSD	BH - 178 (4')	Soluble	Solid	300.0	99137

Analysis Batch: 99157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-10	BH - 200 (3')	Soluble	Solid	300.0	99138
890-7522-11	BH - 201 (3')	Soluble	Solid	300.0	99138
890-7522-12	BH - 214 (3')	Soluble	Solid	300.0	99138
890-7522-13	BH - 213 (3')	Soluble	Solid	300.0	99138
890-7522-14	BH - 212 (3')	Soluble	Solid	300.0	99138
890-7522-15	BH - 215 (3')	Soluble	Solid	300.0	99138
890-7522-16	BH - 205 (3')	Soluble	Solid	300.0	99138
890-7522-17	BH - 206 (3')	Soluble	Solid	300.0	99138
890-7522-18	BH - 204 (3')	Soluble	Solid	300.0	99138
890-7522-19	BH - 208 (3')	Soluble	Solid	300.0	99138
890-7522-20	BH - 210 (3')	Soluble	Solid	300.0	99138
890-7522-21	BH - 211 (3')	Soluble	Solid	300.0	99138
890-7522-22	BH - 207 (3')	Soluble	Solid	300.0	99138
890-7522-23	BH - 209 (3')	Soluble	Solid	300.0	99138
890-7522-25	BH - 197 (3')	Soluble	Solid	300.0	99138
890-7522-26	BH - 193 (3')	Soluble	Solid	300.0	99138
890-7522-27	BH - 194 (3')	Soluble	Solid	300.0	99138
890-7522-28	BH - 195 (3')	Soluble	Solid	300.0	99138
890-7522-29	BH - 203 (3')	Soluble	Solid	300.0	99138
MB 880-99138/1-A	Method Blank	Soluble	Solid	300.0	99138
LCS 880-99138/2-A	Lab Control Sample	Soluble	Solid	300.0	99138
LCSD 880-99138/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99138
890-7522-10 MS	BH - 200 (3')	Soluble	Solid	300.0	99138
890-7522-10 MSD	BH - 200 (3')	Soluble	Solid	300.0	99138
890-7522-20 MS	BH - 210 (3')	Soluble	Solid	300.0	99138
890-7522-20 MSD	BH - 210 (3')	Soluble	Solid	300.0	99138

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 181 (3')

Lab Sample ID: 890-7522-1
Matrix: Solid
Date Collected: 12/27/24 11:00
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 12:57	CH	EET MID

Client Sample ID: BH - 179 (4')

Lab Sample ID: 890-7522-2
Matrix: Solid
Date Collected: 12/27/24 11:05
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:03	CH	EET MID

Client Sample ID: BH - 178 (4')

Lab Sample ID: 890-7522-3
Matrix: Solid
Date Collected: 12/27/24 11:10
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:09	CH	EET MID

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Matrix: Solid
Date Collected: 12/27/24 11:15
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:57	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Date Collected: 12/27/24 11:15
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:55	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:27	CH	EET MID

Client Sample ID: BH - 180 (3')

Lab Sample ID: 890-7522-5
Date Collected: 12/27/24 11:20
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 15:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:33	CH	EET MID

Client Sample ID: BH - 202 (3')

Lab Sample ID: 890-7522-6
Date Collected: 12/27/24 11:25
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 15:25	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:50	CH	EET MID

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7
Date Collected: 12/27/24 11:30
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:10	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7

Date Collected: 12/27/24 11:30
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:56	CH	EET MID

Client Sample ID: BH - 199 (3')

Lab Sample ID: 890-7522-9

Date Collected: 12/27/24 11:40
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 14:02	CH	EET MID

Client Sample ID: BH - 200 (3')

Lab Sample ID: 890-7522-10

Date Collected: 12/27/24 11:45
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:13	SMC	EET MID

Client Sample ID: BH - 201 (3')

Lab Sample ID: 890-7522-11

Date Collected: 12/27/24 11:50
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:55	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:31	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 214 (3')

Lab Sample ID: 890-7522-12

Date Collected: 12/27/24 11:55
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 15:10	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:37	SMC	EET MID

Client Sample ID: BH - 213 (3')

Lab Sample ID: 890-7522-13

Date Collected: 12/27/24 12:00
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 15:25	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:43	SMC	EET MID

Client Sample ID: BH - 212 (3')

Lab Sample ID: 890-7522-14

Date Collected: 12/27/24 12:05
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 17:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 17:48	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:48	SMC	EET MID

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15

Date Collected: 12/27/24 12:10
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 19:36	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15
Matrix: Solid
Date Collected: 12/27/24 12:10
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99221	12/31/24 18:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 18:35	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:06	SMC	EET MID

Client Sample ID: BH - 205 (3')

Lab Sample ID: 890-7522-16
Matrix: Solid
Date Collected: 12/27/24 12:15
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 18:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 18:52	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:12	SMC	EET MID

Client Sample ID: BH - 206 (3')

Lab Sample ID: 890-7522-17
Matrix: Solid
Date Collected: 12/27/24 12:20
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:08	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:18	SMC	EET MID

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Matrix: Solid
Date Collected: 12/27/24 12:25
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:25	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Matrix: Solid
Date Collected: 12/27/24 12:25
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:24	SMC	EET MID

Client Sample ID: BH - 208 (3')

Lab Sample ID: 890-7522-19
Matrix: Solid
Date Collected: 12/27/24 12:30
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:40	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:30	SMC	EET MID

Client Sample ID: BH - 210 (3')

Lab Sample ID: 890-7522-20
Matrix: Solid
Date Collected: 12/27/24 12:35
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:57	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:36	SMC	EET MID

Client Sample ID: BH - 211 (3')

Lab Sample ID: 890-7522-21
Matrix: Solid
Date Collected: 12/27/24 12:40
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 20:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 20:13	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:53	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 207 (3')

Lab Sample ID: 890-7522-22

Date Collected: 12/27/24 12:45
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 17:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 20:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 20:30	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:59	SMC	EET MID

Client Sample ID: BH - 209 (3')

Lab Sample ID: 890-7522-23

Date Collected: 12/27/24 12:50
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 20:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 20:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:17	SMC	EET MID

Client Sample ID: BH - 197 (3')

Lab Sample ID: 890-7522-25

Date Collected: 12/27/24 01:00
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 21:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 21:17	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:23	SMC	EET MID

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26

Date Collected: 12/27/24 01:05
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:08	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26
Matrix: Solid
Date Collected: 12/27/24 01:05
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99221	12/31/24 21:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 21:34	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:29	SMC	EET MID

Client Sample ID: BH - 194 (3')

Lab Sample ID: 890-7522-27
Matrix: Solid
Date Collected: 12/27/24 01:10
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 21:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 21:49	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:35	SMC	EET MID

Client Sample ID: BH - 195 (3')

Lab Sample ID: 890-7522-28
Matrix: Solid
Date Collected: 12/27/24 01:15
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 22:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 22:06	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:40	SMC	EET MID

Client Sample ID: BH - 203 (3')

Lab Sample ID: 890-7522-29
Matrix: Solid
Date Collected: 12/27/24 00:00
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 22:21	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 203 (3')

Date Collected: 12/27/24 00:00
Date Received: 12/27/24 16:55

Lab Sample ID: 890-7522-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:46	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7522-1	BH - 181 (3')	Solid	12/27/24 11:00	12/27/24 16:55
890-7522-2	BH - 179 (4')	Solid	12/27/24 11:05	12/27/24 16:55
890-7522-3	BH - 178 (4')	Solid	12/27/24 11:10	12/27/24 16:55
890-7522-4	BH - 182 (3')	Solid	12/27/24 11:15	12/27/24 16:55
890-7522-5	BH - 180 (3')	Solid	12/27/24 11:20	12/27/24 16:55
890-7522-6	BH - 202 (3')	Solid	12/27/24 11:25	12/27/24 16:55
890-7522-7	BH - 196 (3')	Solid	12/27/24 11:30	12/27/24 16:55
890-7522-9	BH - 199 (3')	Solid	12/27/24 11:40	12/27/24 16:55
890-7522-10	BH - 200 (3')	Solid	12/27/24 11:45	12/27/24 16:55
890-7522-11	BH - 201 (3')	Solid	12/27/24 11:50	12/27/24 16:55
890-7522-12	BH - 214 (3')	Solid	12/27/24 11:55	12/27/24 16:55
890-7522-13	BH - 213 (3')	Solid	12/27/24 12:00	12/27/24 16:55
890-7522-14	BH - 212 (3')	Solid	12/27/24 12:05	12/27/24 16:55
890-7522-15	BH - 215 (3')	Solid	12/27/24 12:10	12/27/24 16:55
890-7522-16	BH - 205 (3')	Solid	12/27/24 12:15	12/27/24 16:55
890-7522-17	BH - 206 (3')	Solid	12/27/24 12:20	12/27/24 16:55
890-7522-18	BH - 204 (3')	Solid	12/27/24 12:25	12/27/24 16:55
890-7522-19	BH - 208 (3')	Solid	12/27/24 12:30	12/27/24 16:55
890-7522-20	BH - 210 (3')	Solid	12/27/24 12:35	12/27/24 16:55
890-7522-21	BH - 211 (3')	Solid	12/27/24 12:40	12/27/24 16:55
890-7522-22	BH - 207 (3')	Solid	12/27/24 12:45	12/27/24 16:55
890-7522-23	BH - 209 (3')	Solid	12/27/24 12:50	12/27/24 16:55
890-7522-25	BH - 197 (3')	Solid	12/27/24 01:00	12/27/24 16:55
890-7522-26	BH - 193 (3')	Solid	12/27/24 01:05	12/27/24 16:55
890-7522-27	BH - 194 (3')	Solid	12/27/24 01:10	12/27/24 16:55
890-7522-28	BH - 195 (3')	Solid	12/27/24 01:15	12/27/24 16:55
890-7522-29	BH - 203 (3')	Solid	12/27/24 00:00	12/27/24 16:55

Page 834 of 1592

Analysis Request of Chain of Custody Record

Page 1 of 1

Tetra Tech, Inc.

901 W Wall Stre
Midland, Texa
Tel (432) 6
Fax (432) 6

890-7522 Chain of Custody

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-181 (3')	12/27/2024	11:00		X			X			X			X												X				
	BH-179 (4')	12/27/2024	11:05		X			X			X			X												X				
	BH-178 (4')	12/27/2024	11:10		X			X			X			X												X				
	BH-182 (3')	12/27/2024	11:15		X			X			X			X												X				
	BH-180 (3')	12/27/2024	11:20		X			X			X			X												X				
	BH-202 (3')	12/27/2024	11:25		X			X			X			X												X				
	BH-196 (3')	12/27/2024	11:30		X			X			X			X												X				
	BH-198 (3')	12/27/2024	11:35		X			X			X			X												X				
	BH-199 (3')	12/27/2024	11:40		X			X			X			X												X				
	BH-200 (3')	12/27/2024	11:45		X			X			X			X												X				

Page 50 of 66

Relinquished by:	Date: 12.27.24	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/27/24 Time: 16:55

LAB USE ONLY

Sample Temperature: Tmeter -0.2 → 3.2; 3.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold	BTEX 8260B
	BH-201 (3')	12/27/2024	11:50		X			X			X		X												X				
	BH-214 (3')	12/27/2024	11:55		X			X			X		X												X				
	BH-213 (3')	12/27/2024	12:00		X			X			X		X												X				
	BH-212 (3')	12/27/2024	12:05		X			X			X		X												X				
	BH-215 (3')	12/27/2024	12:10		X			X			X		X												X				
	BH-205 (3')	12/27/2024	12:15		X			X			X		X												X				
	BH-206 (3')	12/27/2024	12:20		X			X			X		X												X				
	BH-204 (3')	12/27/2024	12:25		X			X			X		X												X				
	BH-208 (3')	12/27/2024	12:30		X			X			X		X												X				
	BH-210 (3')	12/27/2024	12:35		X			X			X		X												X				

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	12.27.24			12/27	16 55
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

REMARKS:

Sample Temperature
TNMC7
-0.2
3.2
3.0

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/11/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM
11/2025

Page 836 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Culberson County TX	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	BTEX 8260B	Hold
	BH-211 (3')	12/27/2024	12:40		X			X			X		X												X				
	BH-207 (3')	12/27/2024	12:45		X			X			X		X												X				
	BH-209 (3')	12/27/2024	12:50		X			X			X		X												X				
	BH-196 (3')	12/27/2024	12:55		X			X			X		X												X				
	BH-197 (3')	12/27/2024	1:00		X			X			X		X												X				
	BH-193 (3')	12/27/2024	1:05		X			X			X		X												X				
	BH-194 (3')	12/27/2024	1:10		X			X			X		X												X				
	BH-195 (3')	12/27/2024	1:15		X			X			X		X												X				

Page 61 of 66

Relinquished by: Gary Allen	Date: 12.27.24	Time:
Received by:	Date: 12/27	Time: 1630
Relinquished by:	Date:	Time:
Received by:	Date:	Time:
Relinquished by:	Date:	Time:
Received by:	Date:	Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature
Trip Blank -0.2
3-2
3-C

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM

Page 837 of 1592

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Stre
Midland, Texa
Tel (432) 6
Fax (432) 6

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	BH-181 (3')	12/27/2024	11:00		X			X			X		X												X							
	BH-179 (4')	12/27/2024	11:05		X			X			X		X												X							
	BH-178 (4')	12/27/2024	11:10		X			X			X		X												X							
	BH-182 (3')	12/27/2024	11:15		X			X			X		X												X							
	BH-180 (3')	12/27/2024	11:20		X			X			X		X												X							
	BH-202 (3')	12/27/2024	11:25		X			X			X		X												X							
	BH-196 (3')	12/27/2024	11:30		X			X			X		X												X							
	BH-198 (3')	12/27/2024	11:35		X			X			X		X												X							
	BH-199 (3')	12/27/2024	11:40		X			X			X		X												X							
	BH-200 (3')	12/27/2024	11:45		X			X			X		X												X							

Relinquished by:	Date: 12.27.24	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/27/24 Time: 16:55

LAB USE ONLY

Sample Temperature
Thermo
-0.2
3.2
3.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 62 of 66

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 838 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold	BTEX 8260B
	BH-201 (3')	12/27/2024	11:50		X			X			X		X												X				
	BH-214 (3')	12/27/2024	11:55		X			X			X		X												X				
	BH-213 (3')	12/27/2024	12:00		X			X			X		X												X				
	BH-212 (3')	12/27/2024	12:05		X			X			X		X												X				
	BH-215 (3')	12/27/2024	12:10		X			X			X		X												X				
	BH-205 (3')	12/27/2024	12:15		X			X			X		X												X				
	BH-206 (3')	12/27/2024	12:20		X			X			X		X												X				
	BH-204 (3')	12/27/2024	12:25		X			X			X		X												X				
	BH-208 (3')	12/27/2024	12:30		X			X			X		X												X				
	BH-210 (3')	12/27/2024	12:35		X			X			X		X												X				

Relinquished by:	Date: 12.27.24	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/27 Time: 16 55

LAB USE ONLY

Sample Temperature
TNMAT
-0.2
3.2
3.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 63 of 66

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 839 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Culberson County TX	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-211 (3')	12/27/2024	12:40		X			X				X		X												X						
	BH-207 (3')	12/27/2024	12:45		X			X				X		X												X						
	BH-209 (3')	12/27/2024	12:50		X			X				X		X												X						
	BH-196 (3')	12/27/2024	12:55		X			X				X		X												X						
	BH-197 (3')	12/27/2024	1:00		X			X				X		X												X						
	BH-193 (3')	12/27/2024	1:05		X			X				X		X												X						
	BH-194 (3')	12/27/2024	1:10		X			X				X		X												X						
	BH-195 (3')	12/27/2024	1:15		X			X				X		X												X						
	BH-203 (3') S	12/27			X			X				X		X												X						

Relinquished by: Date: 12.27.24 Time:
Received by: Date: 12/27 Time: 1630

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY

Sample Temperature
Trmcc7
-0.2
3-2
3.C

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 64 of 66
Received by OCD: 6/11/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7522-1
SDG Number: 212C - MD - 03085

Login Number: 7522
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7522-1
SDG Number: 212C - MD - 03085

Login Number: 7522
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/30/24 08:58 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 1/3/2025 4:14:23 PM

JOB DESCRIPTION

ICEMAN SWD
Eddy County NM

JOB NUMBER

890-7527-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

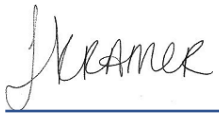
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/3/2025 4:14:23 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7527-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 14
Lab Chronicle 16
Certification Summary 17
Method Summary 18
Sample Summary 19
Chain of Custody 20
Receipt Checklists 21

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7527-1

Job ID: 890-7527-1 Eurofins Carlsbad

Job Narrative
890-7527-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/2/2025 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 53 (4') (890-7527-1) and SW - 25 (890-7527-2).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-99306/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-99306/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-99306 and analytical batch 880-99405 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCSD and within limits in the associated laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW - 25 (890-7527-2). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99385 and analytical batch 880-99390 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7527-1

Job ID: 890-7527-1 (Continued)

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Client Sample ID: BH - 53 (4')

Lab Sample ID: 890-7527-1
Matrix: Solid
Date Collected: 01/02/25 11:00
Date Received: 01/02/25 16:21

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/03/25 08:17	01/03/25 11:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/03/25 08:17	01/03/25 11:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/03/25 08:17	01/03/25 11:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/03/25 08:17	01/03/25 11:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/03/25 08:17	01/03/25 11:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/03/25 08:17	01/03/25 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/03/25 08:17*	*01/03/25 11:23*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/03/25 08:17*	*01/03/25 11:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/03/25 11:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/03/25 13:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/02/25 11:47	01/03/25 13:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/02/25 11:47	01/03/25 13:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 13:16	1
Total TPH	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/02/25 11:47*	*01/03/25 13:16*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/02/25 11:47*	*01/03/25 13:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**514**		9.98		mg/Kg			01/03/25 13:01	1

Client Sample ID: SW - 25

Lab Sample ID: 890-7527-2
Matrix: Solid
Date Collected: 01/02/25 11:05
Date Received: 01/02/25 16:21

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/25 08:17	01/03/25 11:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/25 08:17	01/03/25 11:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/25 08:17	01/03/25 11:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/25 08:17	01/03/25 11:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/25 08:17	01/03/25 11:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/25 08:17	01/03/25 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/03/25 08:17*	*01/03/25 11:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/03/25 08:17*	*01/03/25 11:44*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Client Sample ID: SW - 25

Date Collected: 01/02/25 11:05
Date Received: 01/02/25 16:21

Lab Sample ID: 890-7527-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/25 11:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/25 13:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/02/25 11:47	01/03/25 13:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/02/25 11:47	01/03/25 13:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/02/25 11:47	01/03/25 13:30	1
Total TPH	<49.9	U	49.9		mg/Kg		01/02/25 11:47	01/03/25 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/02/25 11:47*	*01/03/25 13:30*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*01/02/25 11:47*	*01/03/25 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**577**		9.92		mg/Kg			01/03/25 13:07	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7527-1	BH - 53 (4')	115	99
890-7527-1 MS	BH - 53 (4')	101	99
890-7527-1 MSD	BH - 53 (4')	105	102
890-7527-2	SW - 25	112	101
LCS 880-99382/1-A	Lab Control Sample	100	101
LCSD 880-99382/2-A	Lab Control Sample Dup	100	99
MB 880-99382/5-A	Method Blank	106	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7524-A-1-C MS	Matrix Spike	95	90
890-7524-A-1-D MSD	Matrix Spike Duplicate	96	88
890-7527-1	BH - 53 (4')	76	72
890-7527-2	SW - 25	74	69 S1-
LCS 880-99306/2-A	Lab Control Sample	142 S1+	126
LCSD 880-99306/3-A	Lab Control Sample Dup	161 S1+	147 S1+
MB 880-99306/1-A	Method Blank	102	100

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99382/5-A
Matrix: Solid
Analysis Batch: 99377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/25 08:17	01/03/25 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/25 08:17	01/03/25 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/25 08:17	01/03/25 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/25 08:17	01/03/25 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/25 08:17	01/03/25 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/25 08:17	01/03/25 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/03/25 08:17*	*01/03/25 11:02*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/03/25 08:17*	*01/03/25 11:02*	*1*

Lab Sample ID: LCS 880-99382/1-A
Matrix: Solid
Analysis Batch: 99377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09433		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09135		mg/Kg		91	70 - 130
Toluene	0.100	0.09658		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1924		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09573		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-99382/2-A
Matrix: Solid
Analysis Batch: 99377

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09992		mg/Kg		100	70 - 130	6	35
Ethylbenzene	0.100	0.09691		mg/Kg		97	70 - 130	6	35
Toluene	0.100	0.1019		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130	6	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7527-1 MS
Matrix: Solid
Analysis Batch: 99377

Client Sample ID: BH - 53 (4')
Prep Type: Total/NA
Prep Batch: 99382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.09416		mg/Kg		94	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.09038		mg/Kg		91	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7527-1 MS
Matrix: Solid
Analysis Batch: 99377

Client Sample ID: BH - 53 (4')
Prep Type: Total/NA
Prep Batch: 99382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00201	U	0.0998	0.09567		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1887		mg/Kg		95	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09312		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7527-1 MSD
Matrix: Solid
Analysis Batch: 99377

Client Sample ID: BH - 53 (4')
Prep Type: Total/NA
Prep Batch: 99382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.09708		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0990	0.09337		mg/Kg		94	70 - 130	3	35
Toluene	<0.00201	U	0.0990	0.09800		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1960		mg/Kg		99	70 - 130	4	35
o-Xylene	<0.00201	U	0.0990	0.09648		mg/Kg		97	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-99306/1-A
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1
Total TPH	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*01/02/25 11:47*	*01/03/25 01:04*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/02/25 11:47*	*01/03/25 01:04*	*1*

Lab Sample ID: LCS 880-99306/2-A
Matrix: Solid
Analysis Batch: 99405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99306/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99405 — **Prep Batch: 99306**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1200		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*142*	*S1+*	*70 - 130*
o-Terphenyl	*126*		*70 - 130*

Lab Sample ID: LCSD 880-99306/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99405 — **Prep Batch: 99306**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1351	*+	mg/Kg		135	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1347	*+	mg/Kg		135	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*161*	*S1+*	*70 - 130*
o-Terphenyl	*147*	*S1+*	*70 - 130*

Lab Sample ID: 890-7524-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99405 — **Prep Batch: 99306**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1	994	682.6	F1	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F1	994	679.7	F1	mg/Kg		68	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: 890-7524-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99405 — **Prep Batch: 99306**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1	994	721.8		mg/Kg		73	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F1	994	670.4	F1	mg/Kg		67	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99385/1-A
Matrix: Solid
Analysis Batch: 99390

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/03/25 10:34	1

Lab Sample ID: LCS 880-99385/2-A
Matrix: Solid
Analysis Batch: 99390

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-99385/3-A
Matrix: Solid
Analysis Batch: 99390

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.1		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-52790-A-11-B MS
Matrix: Solid
Analysis Batch: 99390

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	498	F1	252	686.1	F1	mg/Kg		75	90 - 110		

Lab Sample ID: 880-52790-A-11-C MSD
Matrix: Solid
Analysis Batch: 99390

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	498	F1	252	688.4	F1	mg/Kg		76	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 99377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Total/NA	Solid	8021B	99382
890-7527-2	SW - 25	Total/NA	Solid	8021B	99382
MB 880-99382/5-A	Method Blank	Total/NA	Solid	8021B	99382
LCS 880-99382/1-A	Lab Control Sample	Total/NA	Solid	8021B	99382
LCSD 880-99382/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99382
890-7527-1 MS	BH - 53 (4')	Total/NA	Solid	8021B	99382
890-7527-1 MSD	BH - 53 (4')	Total/NA	Solid	8021B	99382

Prep Batch: 99382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Total/NA	Solid	5035	
890-7527-2	SW - 25	Total/NA	Solid	5035	
MB 880-99382/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99382/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99382/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7527-1 MS	BH - 53 (4')	Total/NA	Solid	5035	
890-7527-1 MSD	BH - 53 (4')	Total/NA	Solid	5035	

Analysis Batch: 99434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Total/NA	Solid	Total BTEX	
890-7527-2	SW - 25	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Total/NA	Solid	8015NM Prep	
890-7527-2	SW - 25	Total/NA	Solid	8015NM Prep	
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7524-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7524-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Total/NA	Solid	8015B NM	99306
890-7527-2	SW - 25	Total/NA	Solid	8015B NM	99306
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015B NM	99306
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99306
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99306
890-7524-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	99306
890-7524-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99306

Analysis Batch: 99453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Total/NA	Solid	8015 NM	
890-7527-2	SW - 25	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

HPLC/IC

Leach Batch: 99385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Soluble	Solid	DI Leach	
890-7527-2	SW - 25	Soluble	Solid	DI Leach	
MB 880-99385/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99385/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99385/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52790-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52790-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7527-1	BH - 53 (4')	Soluble	Solid	300.0	99385
890-7527-2	SW - 25	Soluble	Solid	300.0	99385
MB 880-99385/1-A	Method Blank	Soluble	Solid	300.0	99385
LCS 880-99385/2-A	Lab Control Sample	Soluble	Solid	300.0	99385
LCSD 880-99385/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99385
880-52790-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	99385
880-52790-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99385

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Client Sample ID: BH - 53 (4')

Lab Sample ID: 890-7527-1

Date Collected: 01/02/25 11:00
Matrix: Solid
Date Received: 01/02/25 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99382	01/03/25 08:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99377	01/03/25 11:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99434	01/03/25 11:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			99453	01/03/25 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 13:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99385	01/03/25 09:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99390	01/03/25 13:01	CH	EET MID

Client Sample ID: SW - 25

Lab Sample ID: 890-7527-2

Date Collected: 01/02/25 11:05
Matrix: Solid
Date Received: 01/02/25 16:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99382	01/03/25 08:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99377	01/03/25 11:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99434	01/03/25 11:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			99453	01/03/25 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 13:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99385	01/03/25 09:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99390	01/03/25 13:07	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7527-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7527-1	BH - 53 (4')	Solid	01/02/25 11:00	01/02/25 16:21
890-7527-2	SW - 25	Solid	01/02/25 11:05	01/02/25 16:21

Page 861 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 1
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7527 Chain of Custody

Client Name: Solaris	Site Manager: Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2025)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-53 (4')	1/2/2025	11:00		X				X					X		X												X							
	SW-25	1/2/2025	11:05		X				X					X		X												X							

Relinquished by: Date: 01.02.25 Time: 15:30
Received by: Date: 01.02.25 Time: 15:30

Relinquished by: Date: 01.02.25 Time:
Received by: Date: 11/2/25 Time: 16

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY

Sample Temperature
21
-0.2
0.8
0.6

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7527-1
SDG Number: Eddy County NM

Login Number: 7527
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7527-1
SDG Number: Eddy County NM

Login Number: 7527
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 01/03/25 08:14 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 1/8/2025 3:54:13 PM

JOB DESCRIPTION

Iceman SWD
Eddy County, NM

JOB NUMBER

890-7528-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

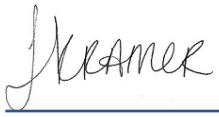
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/8/2025 3:54:13 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 35
QC Sample Results 37
QC Association Summary 45
Lab Chronicle 53
Certification Summary 64
Method Summary 65
Sample Summary 66
Chain of Custody 67
Receipt Checklists 71

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7528-1

Job ID: 890-7528-1 Eurofins Carlsbad

Job Narrative
890-7528-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/3/2025 2:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions
The following samples analyzed were received and analyzed from an unpreserved bulk soil jar: BH-240 (4) (890-7528-1), BH-225 (4) (890-7528-2), BH-226 (4) (890-7528-3), BH-238 (4) (890-7528-4), BH-227 (4) (890-7528-5), BH-229 (4) (890-7528-6), BH-231 (4) (890-7528-7), BH-234 (4) (890-7528-8), BH-239 (4) (890-7528-9), BH-232 (4) (890-7528-10), BH-236 (4) (890-7528-11), BH-237 (4) (890-7528-12), BH-233 (4) (890-7528-13), BH-230 (4) (890-7528-14), BH-235 (4) (890-7528-15), BH-218 (4) (890-7528-16), BH-241 (4) (890-7528-17), BH-242 (4) (890-7528-18), BH-243 (4) (890-7528-19), BH-244 (4) (890-7528-20), BH-245 (4) (890-7528-21), BH-246 (4) (890-7528-22), BH-247 (4) (890-7528-23), BH-216 (4) (890-7528-24), BH-219 (4) (890-7528-25), BH-217 (4) (890-7528-26), BH-221 (4) (890-7528-27), BH-223 (4) (890-7528-28), BH-222 (4) (890-7528-29), BH-220 (4) (890-7528-30), BH-224 (4) (890-7528-31), SW-77 (890-7528-32), SW-78 (890-7528-33) and SW-79 (890-7528-34).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-99580/2-A) and (LCSD 880-99580/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-99580 and analytical batch 880-99657 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-99582 and analytical batch 880-99763 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99582 and analytical batch 880-99763 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-245 (4) (890-7528-21), BH-246 (4) (890-7528-22), BH-247 (4) (890-7528-23), BH-216 (4) (890-7528-24), BH-219 (4) (890-7528-25), BH-221 (4) (890-7528-27), BH-223 (4) (890-7528-28), BH-222 (4) (890-7528-29), BH-220 (4) (890-7528-30), SW-77 (890-7528-32), SW-78 (890-7528-33), SW-79 (890-7528-34), (LCS 880-99582/2-A) and (LCSD 880-99582/3-A). Percent recoveries are based on the amount spiked.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99527 and analytical batch 880-99538 were outside control limits for one or more analytes. See QC Sample Results for detail.

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7528-1

Job ID: 890-7528-1 (Continued) Eurofins Carlsbad

Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99526 and analytical batch 880-99532 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-240 (4)

Lab Sample ID: 890-7528-1
Matrix: Solid
Date Collected: 01/02/25 08:00
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 12:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 12:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 12:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 12:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 12:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/06/25 09:53*	*01/06/25 12:12*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/06/25 09:53*	*01/06/25 12:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 12:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 20:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:28	01/07/25 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:28	01/07/25 20:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:28	01/07/25 20:11	1
Total TPH	<49.9	U	49.9		mg/Kg		01/06/25 15:28	01/07/25 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*01/06/25 15:28*	*01/07/25 20:11*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/06/25 15:28*	*01/07/25 20:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**234**	**F1**	9.92		mg/Kg			01/06/25 13:10	1

Client Sample ID: BH-225 (4)

Lab Sample ID: 890-7528-2
Matrix: Solid
Date Collected: 01/02/25 08:05
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/06/25 09:53	01/06/25 12:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/06/25 09:53	01/06/25 12:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/06/25 09:53*	*01/06/25 12:33*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 12:33*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-225 (4)

Date Collected: 01/02/25 08:05
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/06/25 12:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/07/25 20:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		01/06/25 15:28	01/07/25 20:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/06/25 15:28	01/07/25 20:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/06/25 15:28	01/07/25 20:59	1
Total TPH	<49.7	U	49.7		mg/Kg		01/06/25 15:28	01/07/25 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/06/25 15:28*	*01/07/25 20:59*	*1*
o-Terphenyl	*96*		*70 - 130*	*01/06/25 15:28*	*01/07/25 20:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9790**		99.8		mg/Kg			01/06/25 13:28	10

Client Sample ID: BH-226 (4)

Date Collected: 01/02/25 08:10
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 09:53	01/06/25 12:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 09:53	01/06/25 12:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/06/25 09:53*	*01/06/25 12:53*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 12:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/06/25 12:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/07/25 21:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *+	50.3		mg/Kg		01/06/25 15:28	01/07/25 21:14	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-226 (4)

Lab Sample ID: 890-7528-3
Matrix: Solid
Date Collected: 01/02/25 08:10
Date Received: 01/03/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.3	U *+	50.3		mg/Kg		01/06/25 15:28	01/07/25 21:14	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/06/25 15:28	01/07/25 21:14	1
Total TPH	<50.3	U	50.3		mg/Kg		01/06/25 15:28	01/07/25 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*01/06/25 15:28*	*01/07/25 21:14*	*1*
o-Terphenyl	*96*		*70 - 130*	*01/06/25 15:28*	*01/07/25 21:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7100**		99.2		mg/Kg			01/06/25 13:34	10

Client Sample ID: BH-238 (4)

Lab Sample ID: 890-7528-4
Matrix: Solid
Date Collected: 01/02/25 08:15
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 13:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 13:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 13:14	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/06/25 09:53	01/06/25 13:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/06/25 09:53	01/06/25 13:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/06/25 09:53*	*01/06/25 13:14*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/06/25 09:53*	*01/06/25 13:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/06/25 13:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 21:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:31	1
Total TPH	<49.9	U	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*01/06/25 15:28*	*01/07/25 21:31*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/06/25 15:28*	*01/07/25 21:31*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-238 (4)

Lab Sample ID: 890-7528-4
Matrix: Solid
Date Collected: 01/02/25 08:15
Date Received: 01/03/25 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		10.0		mg/Kg			01/06/25 13:40	1

Client Sample ID: BH-227 (4)

Lab Sample ID: 890-7528-5
Matrix: Solid
Date Collected: 01/02/25 08:20
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 13:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 13:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 13:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/25 09:53	01/06/25 13:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/25 09:53	01/06/25 13:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/06/25 09:53*	*01/06/25 13:34*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 13:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/25 13:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 21:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:46	1
Total TPH	<49.9	U	49.9		mg/Kg		01/06/25 15:28	01/07/25 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/06/25 15:28*	*01/07/25 21:46*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/06/25 15:28*	*01/07/25 21:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2540		199		mg/Kg			01/06/25 13:46	20

Client Sample ID: BH-229 (4)

Lab Sample ID: 890-7528-6
Matrix: Solid
Date Collected: 01/02/25 08:25
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 13:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 13:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-229 (4)

Date Collected: 01/02/25 08:25
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 13:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 09:53	01/06/25 13:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 09:53	01/06/25 13:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/06/25 09:53*	*01/06/25 13:55*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/06/25 09:53*	*01/06/25 13:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/06/25 13:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/07/25 22:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *+	50.2		mg/Kg		01/06/25 15:28	01/07/25 22:02	1
Diesel Range Organics (Over C10-C28)	<50.2	U *+	50.2		mg/Kg		01/06/25 15:28	01/07/25 22:02	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/06/25 15:28	01/07/25 22:02	1
Total TPH	<50.2	U	50.2		mg/Kg		01/06/25 15:28	01/07/25 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:02*	*1*
o-Terphenyl	*102*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6100**		99.0		mg/Kg			01/06/25 14:04	10

Client Sample ID: BH-231 (4)

Date Collected: 01/02/25 08:30
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 14:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 14:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/06/25 09:53*	*01/06/25 14:15*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/06/25 09:53*	*01/06/25 14:15*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-231 (4)

Date Collected: 01/02/25 08:30
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 14:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/07/25 22:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *+	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:18	1
Diesel Range Organics (Over C10-C28)	<50.3	U *+	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:18	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:18	1
Total TPH	<50.3	U	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:18*	*1*
o-Terphenyl	*87*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**637**		10.1		mg/Kg			01/06/25 14:09	1

Client Sample ID: BH-234 (4)

Date Collected: 01/02/25 08:35
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 14:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 14:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 14:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 09:53	01/06/25 14:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 09:53	01/06/25 14:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/06/25 09:53*	*01/06/25 14:36*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/06/25 09:53*	*01/06/25 14:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/06/25 14:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/07/25 22:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *+	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:34	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-234 (4)

Lab Sample ID: 890-7528-8
Matrix: Solid
Date Collected: 01/02/25 08:35
Date Received: 01/03/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.3	U *+	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:34	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:34	1
Total TPH	<50.3	U	50.3		mg/Kg		01/06/25 15:28	01/07/25 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:34*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		9.98		mg/Kg			01/06/25 14:15	1

Client Sample ID: BH-239 (4)

Lab Sample ID: 890-7528-9
Matrix: Solid
Date Collected: 01/02/25 08:40
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 14:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 14:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/06/25 09:53*	*01/06/25 14:56*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/06/25 09:53*	*01/06/25 14:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 14:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/07/25 22:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+	50.1		mg/Kg		01/06/25 15:28	01/07/25 22:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U *+	50.1		mg/Kg		01/06/25 15:28	01/07/25 22:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/06/25 15:28	01/07/25 22:50	1
Total TPH	<50.1	U	50.1		mg/Kg		01/06/25 15:28	01/07/25 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:50*	*1*
o-Terphenyl	*101*		*70 - 130*	*01/06/25 15:28*	*01/07/25 22:50*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-239 (4)

Lab Sample ID: 890-7528-9
Matrix: Solid
Date Collected: 01/02/25 08:40
Date Received: 01/03/25 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		9.96		mg/Kg			01/06/25 14:21	1

Client Sample ID: BH-232 (4)

Lab Sample ID: 890-7528-10
Matrix: Solid
Date Collected: 01/02/25 08:45
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 15:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 15:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 15:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/06/25 09:53	01/06/25 15:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/06/25 09:53	01/06/25 15:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/06/25 09:53*	*01/06/25 15:17*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/06/25 09:53*	*01/06/25 15:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/06/25 15:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/07/25 23:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *+	50.5		mg/Kg		01/06/25 15:28	01/07/25 23:05	1
Diesel Range Organics (Over C10-C28)	<50.5	U *+	50.5		mg/Kg		01/06/25 15:28	01/07/25 23:05	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/06/25 15:28	01/07/25 23:05	1
Total TPH	<50.5	U	50.5		mg/Kg		01/06/25 15:28	01/07/25 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*01/06/25 15:28*	*01/07/25 23:05*	*1*
o-Terphenyl	*89*		*70 - 130*	*01/06/25 15:28*	*01/07/25 23:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	828		9.94		mg/Kg			01/06/25 14:27	1

Client Sample ID: BH-236 (4)

Lab Sample ID: 890-7528-11
Matrix: Solid
Date Collected: 01/02/25 08:50
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 16:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 16:51	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-236 (4)

Date Collected: 01/02/25 08:50
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 16:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 09:53	01/06/25 16:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 09:53	01/06/25 16:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/06/25 09:53*	*01/06/25 16:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 16:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/06/25 16:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 23:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		01/06/25 15:28	01/07/25 23:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/06/25 15:28	01/07/25 23:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/25 15:28	01/07/25 23:37	1
Total TPH	<49.8	U	49.8		mg/Kg		01/06/25 15:28	01/07/25 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/06/25 15:28*	*01/07/25 23:37*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/06/25 15:28*	*01/07/25 23:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**319**		9.90		mg/Kg			01/06/25 14:33	1

Client Sample ID: BH-237 (4)

Date Collected: 01/02/25 08:55
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 17:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 17:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 17:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/25 09:53	01/06/25 17:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/25 09:53	01/06/25 17:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/06/25 09:53*	*01/06/25 17:12*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/06/25 09:53*	*01/06/25 17:12*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-237 (4)

Lab Sample ID: 890-7528-12

Date Collected: 01/02/25 08:55
Matrix: Solid
Date Received: 01/03/25 14:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/06/25 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/07/25 23:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *+	49.6		mg/Kg		01/06/25 15:28	01/07/25 23:52	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		01/06/25 15:28	01/07/25 23:52	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/06/25 15:28	01/07/25 23:52	1
Total TPH	<49.6	U	49.6		mg/Kg		01/06/25 15:28	01/07/25 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/06/25 15:28*	*01/07/25 23:52*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/06/25 15:28*	*01/07/25 23:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6200**		100		mg/Kg			01/06/25 14:51	10

Client Sample ID: BH-233 (4)

Lab Sample ID: 890-7528-13

Date Collected: 01/02/25 09:00
Matrix: Solid
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 17:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 17:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 17:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/06/25 09:53	01/06/25 17:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/06/25 09:53	01/06/25 17:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/06/25 09:53*	*01/06/25 17:32*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/06/25 09:53*	*01/06/25 17:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/06/25 17:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/08/25 00:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *+	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:09	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-233 (4)

Lab Sample ID: 890-7528-13
Matrix: Solid
Date Collected: 01/02/25 09:00
Date Received: 01/03/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:09	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:09	1
Total TPH	<49.6	U	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:09*	*1*
o-Terphenyl	*96*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**677**		10.0		mg/Kg			01/06/25 14:57	1

Client Sample ID: BH-230 (4)

Lab Sample ID: 890-7528-14
Matrix: Solid
Date Collected: 01/02/25 09:05
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 17:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 17:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 17:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/25 09:53	01/06/25 17:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/25 09:53	01/06/25 17:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/25 09:53	01/06/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/06/25 09:53*	*01/06/25 17:53*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/06/25 09:53*	*01/06/25 17:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/25 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			01/08/25 00:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U *+	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:24	1
Diesel Range Organics (Over C10-C28)	<49.5	U *+	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:24	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:24	1
Total TPH	<49.5	U	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:24*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:24*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-230 (4)

Lab Sample ID: 890-7528-14
Matrix: Solid
Date Collected: 01/02/25 09:05
Date Received: 01/03/25 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	910		10.1		mg/Kg			01/06/25 15:15	1

Client Sample ID: BH-235 (4)

Lab Sample ID: 890-7528-15
Matrix: Solid
Date Collected: 01/02/25 09:10
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 18:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 18:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 18:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 09:53	01/06/25 18:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 09:53	01/06/25 18:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/06/25 09:53*	*01/06/25 18:13*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 18:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/06/25 18:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			01/08/25 00:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U *+	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:40	1
Diesel Range Organics (Over C10-C28)	<49.5	U *+	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:40	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:40	1
Total TPH	<49.5	U	49.5		mg/Kg		01/06/25 15:28	01/08/25 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:40*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	912		10.1		mg/Kg			01/06/25 15:21	1

Client Sample ID: BH-218 (4)

Lab Sample ID: 890-7528-16
Matrix: Solid
Date Collected: 01/02/25 09:15
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:33	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-218 (4)

Date Collected: 01/02/25 09:15
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-16

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/06/25 09:53	01/06/25 18:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/06/25 09:53	01/06/25 18:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 18:33*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 18:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/06/25 18:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/08/25 00:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *+	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:56	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:56	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:56	1
Total TPH	<49.6	U	49.6		mg/Kg		01/06/25 15:28	01/08/25 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:56*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/06/25 15:28*	*01/08/25 00:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		9.92		mg/Kg			01/06/25 15:26	1

Client Sample ID: BH-241 (4)

Date Collected: 01/02/25 09:20
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-17

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:54	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/06/25 09:53	01/06/25 18:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/06/25 09:53	01/06/25 18:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/06/25 09:53*	*01/06/25 18:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 18:54*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-241 (4)

Date Collected: 01/02/25 09:20
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-17
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/06/25 18:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/08/25 01:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *+	50.2		mg/Kg		01/06/25 15:28	01/08/25 01:11	1
Diesel Range Organics (Over C10-C28)	<50.2	U *+	50.2		mg/Kg		01/06/25 15:28	01/08/25 01:11	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/06/25 15:28	01/08/25 01:11	1
Total TPH	<50.2	U	50.2		mg/Kg		01/06/25 15:28	01/08/25 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:11*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.1**		9.98		mg/Kg			01/06/25 15:32	1

Client Sample ID: BH-242 (4)

Date Collected: 01/02/25 09:25
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 19:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 19:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 19:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 09:53	01/06/25 19:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 09:53	01/06/25 19:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 09:53	01/06/25 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/06/25 09:53*	*01/06/25 19:14*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/06/25 09:53*	*01/06/25 19:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/06/25 19:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/08/25 01:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *+	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:27	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-242 (4)

Lab Sample ID: 890-7528-18
Matrix: Solid
Date Collected: 01/02/25 09:25
Date Received: 01/03/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.4	U *+	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:27	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:27	1
Total TPH	<50.4	U	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:27*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.1**		9.96		mg/Kg			01/06/25 15:38	1

Client Sample ID: BH-243 (4)

Lab Sample ID: 890-7528-19
Matrix: Solid
Date Collected: 01/02/25 09:30
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 09:53	01/06/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 09:53	01/06/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/06/25 09:53*	*01/06/25 19:35*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 09:53*	*01/06/25 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 19:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/08/25 01:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *+	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:42	1
Diesel Range Organics (Over C10-C28)	<50.4	U *+	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:42	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:42	1
Total TPH	<50.4	U	50.4		mg/Kg		01/06/25 15:28	01/08/25 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:42*	*1*
o-Terphenyl	*85*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:42*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-243 (4)

Lab Sample ID: 890-7528-19
Matrix: Solid
Date Collected: 01/02/25 09:30
Date Received: 01/03/25 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.8		9.94		mg/Kg			01/06/25 15:44	1

Client Sample ID: BH-244 (4)

Lab Sample ID: 890-7528-20
Matrix: Solid
Date Collected: 01/02/25 09:35
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 19:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 19:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 19:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/06/25 09:53	01/06/25 19:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/06/25 09:53	01/06/25 19:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 09:53	01/06/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/06/25 09:53*	*01/06/25 19:56*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/06/25 09:53*	*01/06/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/06/25 19:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 01:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		01/06/25 15:28	01/08/25 01:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/06/25 15:28	01/08/25 01:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/25 15:28	01/08/25 01:57	1
Total TPH	<49.8	U	49.8		mg/Kg		01/06/25 15:28	01/08/25 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:57*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/06/25 15:28*	*01/08/25 01:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.8		10.1		mg/Kg			01/06/25 15:50	1

Client Sample ID: BH-245 (4)

Lab Sample ID: 890-7528-21
Matrix: Solid
Date Collected: 01/02/25 09:40
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 12:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 12:11	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-245 (4)

Date Collected: 01/02/25 09:40
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-21

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 12:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 12:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 12:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/06/25 10:13*	*01/06/25 12:11*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/06/25 10:13*	*01/06/25 12:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 12:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 09:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		01/06/25 15:31	01/08/25 09:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/06/25 15:31	01/08/25 09:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/25 15:31	01/08/25 09:54	1
Total TPH	<49.8	U	49.8		mg/Kg		01/06/25 15:31	01/08/25 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*172*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 09:54*	*1*
o-Terphenyl	*175*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 09:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.5**		10.0		mg/Kg			01/06/25 16:37	1

Client Sample ID: BH-246 (4)

Date Collected: 01/02/25 09:45
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-22

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 12:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 12:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 12:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/06/25 10:13	01/06/25 12:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/06/25 10:13	01/06/25 12:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/06/25 10:13*	*01/06/25 12:31*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 12:31*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-246 (4)

Date Collected: 01/02/25 09:45
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/06/25 12:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/08/25 10:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *+	50.5		mg/Kg		01/06/25 15:31	01/08/25 10:39	1
Diesel Range Organics (Over C10-C28)	<50.5	U *+	50.5		mg/Kg		01/06/25 15:31	01/08/25 10:39	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/06/25 15:31	01/08/25 10:39	1
Total TPH	<50.5	U	50.5		mg/Kg		01/06/25 15:31	01/08/25 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 10:39*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 10:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.7**		10.0		mg/Kg			01/06/25 16:55	1

Client Sample ID: BH-247 (4)

Date Collected: 01/02/25 09:50
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 12:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 12:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 12:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 12:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 12:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/06/25 10:13*	*01/06/25 12:52*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 12:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/06/25 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 10:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 10:56	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-247 (4)

Lab Sample ID: 890-7528-23
Matrix: Solid
Date Collected: 01/02/25 09:50
Date Received: 01/03/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 10:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 10:56	1
Total TPH	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*182*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 10:56*	*1*
o-Terphenyl	*185*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 10:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.0**		10.0		mg/Kg			01/06/25 17:01	1

Client Sample ID: BH-216 (4)

Lab Sample ID: 890-7528-24
Matrix: Solid
Date Collected: 01/02/25 09:55
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 13:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 13:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 13:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 13:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 13:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/06/25 10:13*	*01/06/25 13:53*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/06/25 10:13*	*01/06/25 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 13:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 11:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		01/06/25 15:31	01/08/25 11:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/06/25 15:31	01/08/25 11:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/25 15:31	01/08/25 11:11	1
Total TPH	<49.8	U	49.8		mg/Kg		01/06/25 15:31	01/08/25 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*169*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 11:11*	*1*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 11:11*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-216 (4)

Lab Sample ID: 890-7528-24
Matrix: Solid
Date Collected: 01/02/25 09:55
Date Received: 01/03/25 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.0		mg/Kg			01/06/25 17:07	1

Client Sample ID: BH-219 (4)

Lab Sample ID: 890-7528-25
Matrix: Solid
Date Collected: 01/02/25 10:00
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 19:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 19:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 19:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 10:13	01/06/25 19:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 10:13	01/06/25 19:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/06/25 10:13*	*01/06/25 19:33*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 19:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/06/25 19:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/08/25 11:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *+	49.6		mg/Kg		01/06/25 15:31	01/08/25 11:27	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		01/06/25 15:31	01/08/25 11:27	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/06/25 15:31	01/08/25 11:27	1
Total TPH	<49.6	U	49.6		mg/Kg		01/06/25 15:31	01/08/25 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 11:27*	*1*
o-Terphenyl	*159*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 11:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.7		9.90		mg/Kg			01/06/25 17:13	1

Client Sample ID: BH-217 (4)

Lab Sample ID: 890-7528-26
Matrix: Solid
Date Collected: 01/02/25 10:05
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 19:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 19:54	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-217 (4)

Date Collected: 01/02/25 10:05
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-26

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 19:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/25 10:13	01/06/25 19:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/25 10:13	01/06/25 19:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/06/25 10:13*	*01/06/25 19:54*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/06/25 10:13*	*01/06/25 19:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/06/25 19:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/08/25 11:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *+	50.2		mg/Kg		01/06/25 15:31	01/08/25 11:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U *+	50.2		mg/Kg		01/06/25 15:31	01/08/25 11:42	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/06/25 15:31	01/08/25 11:42	1
Total TPH	<50.2	U	50.2		mg/Kg		01/06/25 15:31	01/08/25 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*01/06/25 15:31*	*01/08/25 11:42*	*1*
o-Terphenyl	*125*		*70 - 130*	*01/06/25 15:31*	*01/08/25 11:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2650**		49.9		mg/Kg			01/06/25 17:31	5

Client Sample ID: BH-221 (4)

Date Collected: 01/02/25 10:10
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-27

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 14:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 14:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 14:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/25 10:13	01/06/25 14:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/25 10:13	01/06/25 14:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/06/25 10:13*	*01/06/25 14:14*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/06/25 10:13*	*01/06/25 14:14*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-221 (4)

Lab Sample ID: 890-7528-27

Date Collected: 01/02/25 10:10
Matrix: Solid
Date Received: 01/03/25 14:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/25 14:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/08/25 11:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *+	50.4		mg/Kg		01/06/25 15:31	01/08/25 11:58	1
Diesel Range Organics (Over C10-C28)	<50.4	U *+	50.4		mg/Kg		01/06/25 15:31	01/08/25 11:58	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/06/25 15:31	01/08/25 11:58	1
Total TPH	<50.4	U	50.4		mg/Kg		01/06/25 15:31	01/08/25 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*157*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 11:58*	*1*
o-Terphenyl	*160*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 11:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.4**		10.0		mg/Kg			01/06/25 17:37	1

Client Sample ID: BH-223 (4)

Lab Sample ID: 890-7528-28

Date Collected: 01/02/25 10:15
Matrix: Solid
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 14:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 14:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 14:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 14:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 14:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/06/25 10:13*	*01/06/25 14:34*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 14:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 14:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/08/25 12:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *+	50.5		mg/Kg		01/06/25 15:31	01/08/25 12:12	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-223 (4)

Lab Sample ID: 890-7528-28
Matrix: Solid
Date Collected: 01/02/25 10:15
Date Received: 01/03/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.5	U *+	50.5		mg/Kg		01/06/25 15:31	01/08/25 12:12	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/06/25 15:31	01/08/25 12:12	1
Total TPH	<50.5	U	50.5		mg/Kg		01/06/25 15:31	01/08/25 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*174*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 12:12*	*1*
o-Terphenyl	*178*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 12:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		9.96		mg/Kg			01/06/25 17:43	1

Client Sample ID: BH-222 (4)

Lab Sample ID: 890-7528-29
Matrix: Solid
Date Collected: 01/02/25 10:20
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 14:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 14:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 14:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/06/25 10:13	01/06/25 14:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/06/25 10:13	01/06/25 14:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/06/25 10:13*	*01/06/25 14:55*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 14:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/06/25 14:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/08/25 12:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *+	50.2		mg/Kg		01/06/25 15:31	01/08/25 12:28	1
Diesel Range Organics (Over C10-C28)	<50.2	U *+	50.2		mg/Kg		01/06/25 15:31	01/08/25 12:28	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/06/25 15:31	01/08/25 12:28	1
Total TPH	<50.2	U	50.2		mg/Kg		01/06/25 15:31	01/08/25 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 12:28*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 12:28*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-222 (4)

Lab Sample ID: 890-7528-29
Matrix: Solid
Date Collected: 01/02/25 10:20
Date Received: 01/03/25 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3960		49.6		mg/Kg			01/06/25 17:48	5

Client Sample ID: BH-220 (4)

Lab Sample ID: 890-7528-30
Matrix: Solid
Date Collected: 01/02/25 10:25
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 15:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 15:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 15:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 15:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 15:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/06/25 10:13*	*01/06/25 15:15*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/06/25 15:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/08/25 12:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+	50.1		mg/Kg		01/06/25 15:31	01/08/25 12:43	1
Diesel Range Organics (Over C10-C28)	<50.1	U *+	50.1		mg/Kg		01/06/25 15:31	01/08/25 12:43	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/06/25 15:31	01/08/25 12:43	1
Total TPH	<50.1	U	50.1		mg/Kg		01/06/25 15:31	01/08/25 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 12:43*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 12:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	413		9.92		mg/Kg			01/06/25 17:54	1

Client Sample ID: BH-224 (4)

Lab Sample ID: 890-7528-31
Matrix: Solid
Date Collected: 01/02/25 10:30
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 16:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 16:50	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-224 (4)

Date Collected: 01/02/25 10:30
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-31

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 16:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 16:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/06/25 10:13*	*01/06/25 16:50*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 16:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 16:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 13:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:14	1
Total TPH	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*01/06/25 15:31*	*01/08/25 13:14*	*1*
o-Terphenyl	*127*		*70 - 130*	*01/06/25 15:31*	*01/08/25 13:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7880**	**F1**	101		mg/Kg			01/06/25 18:00	10

Client Sample ID: SW-77

Date Collected: 01/02/25 10:35
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-32

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 17:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 17:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 17:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/25 10:13	01/06/25 17:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/25 10:13	01/06/25 17:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:13	01/06/25 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/06/25 10:13*	*01/06/25 17:10*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/06/25 10:13*	*01/06/25 17:10*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: SW-77

Lab Sample ID: 890-7528-32
Matrix: Solid
Date Collected: 01/02/25 10:35
Date Received: 01/03/25 14:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/25 17:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 13:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:29	1
Total TPH	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*258*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 13:29*	*1*
o-Terphenyl	*261*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 13:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.0**		10.0		mg/Kg			01/06/25 18:18	1

Client Sample ID: SW-78

Lab Sample ID: 890-7528-33
Matrix: Solid
Date Collected: 01/02/25 10:40
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 17:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 17:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/06/25 10:13*	*01/06/25 17:30*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 17:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/06/25 17:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/08/25 13:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/06/25 15:31	01/08/25 13:45	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: SW-78

Lab Sample ID: 890-7528-33
Matrix: Solid
Date Collected: 01/02/25 10:40
Date Received: 01/03/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/06/25 15:31	01/08/25 13:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 13:45	1
Total TPH	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*247*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 13:45*	*1*
o-Terphenyl	*253*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 13:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.9**		9.96		mg/Kg			01/06/25 18:24	1

Client Sample ID: SW-79

Lab Sample ID: 890-7528-34
Matrix: Solid
Date Collected: 01/02/25 10:45
Date Received: 01/03/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/25 10:13	01/06/25 17:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/25 10:13	01/06/25 17:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/06/25 10:13*	*01/06/25 17:51*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/06/25 10:13*	*01/06/25 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/06/25 17:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/08/25 14:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *+	49.6		mg/Kg		01/06/25 15:31	01/08/25 14:00	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		01/06/25 15:31	01/08/25 14:00	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/06/25 15:31	01/08/25 14:00	1
Total TPH	<49.6	U	49.6		mg/Kg		01/06/25 15:31	01/08/25 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*245*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 14:00*	*1*
o-Terphenyl	*245*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 14:00*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: SW-79
Date Collected: 01/02/25 10:45
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-34
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.9		9.94		mg/Kg			01/06/25 18:41	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7528-1	BH-240 (4)	100	96
890-7528-1 MS	BH-240 (4)	103	101
890-7528-1 MSD	BH-240 (4)	101	100
890-7528-2	BH-225 (4)	95	99
890-7528-3	BH-226 (4)	112	99
890-7528-4	BH-238 (4)	108	97
890-7528-5	BH-227 (4)	101	99
890-7528-6	BH-229 (4)	95	101
890-7528-7	BH-231 (4)	111	96
890-7528-8	BH-234 (4)	103	95
890-7528-9	BH-239 (4)	104	98
890-7528-10	BH-232 (4)	111	97
890-7528-11	BH-236 (4)	103	99
890-7528-12	BH-237 (4)	94	98
890-7528-13	BH-233 (4)	102	96
890-7528-14	BH-230 (4)	98	100
890-7528-15	BH-235 (4)	103	99
890-7528-16	BH-218 (4)	99	99
890-7528-17	BH-241 (4)	100	99
890-7528-18	BH-242 (4)	104	97
890-7528-19	BH-243 (4)	101	99
890-7528-20	BH-244 (4)	109	98
890-7528-21	BH-245 (4)	114	107
890-7528-21 MS	BH-245 (4)	113	103
890-7528-21 MSD	BH-245 (4)	112	103
890-7528-22	BH-246 (4)	114	105
890-7528-23	BH-247 (4)	114	105
890-7528-24	BH-216 (4)	117	106
890-7528-25	BH-219 (4)	115	105
890-7528-26	BH-217 (4)	119	104
890-7528-27	BH-221 (4)	116	106
890-7528-28	BH-223 (4)	115	105
890-7528-29	BH-222 (4)	116	105
890-7528-30	BH-220 (4)	120	105
890-7528-31	BH-224 (4)	114	105
890-7528-32	SW-77	115	106
890-7528-33	SW-78	119	105
890-7528-34	SW-79	115	106
LCS 880-99521/1-A	Lab Control Sample	98	100
LCS 880-99528/1-A	Lab Control Sample	111	103
LCSD 880-99521/2-A	Lab Control Sample Dup	98	98
LCSD 880-99528/2-A	Lab Control Sample Dup	108	103
MB 880-99521/5-A	Method Blank	100	93
MB 880-99528/5-A	Method Blank	116	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-7528-1	BH-240 (4)	96	94								
890-7528-1 MS	BH-240 (4)	90	88								
890-7528-1 MSD	BH-240 (4)	90	91								
890-7528-2	BH-225 (4)	99	96								
890-7528-3	BH-226 (4)	98	96								
890-7528-4	BH-238 (4)	96	94								
890-7528-5	BH-227 (4)	108	106								
890-7528-6	BH-229 (4)	102	102								
890-7528-7	BH-231 (4)	89	87								
890-7528-8	BH-234 (4)	99	97								
890-7528-9	BH-239 (4)	102	101								
890-7528-10	BH-232 (4)	94	89								
890-7528-11	BH-236 (4)	81	81								
890-7528-12	BH-237 (4)	84	81								
890-7528-13	BH-233 (4)	102	96								
890-7528-14	BH-230 (4)	83	79								
890-7528-15	BH-235 (4)	90	83								
890-7528-16	BH-218 (4)	98	93								
890-7528-17	BH-241 (4)	87	83								
890-7528-18	BH-242 (4)	79	77								
890-7528-19	BH-243 (4)	83	85								
890-7528-20	BH-244 (4)	83	80								
890-7528-21	BH-245 (4)	172 S1+	175 S1+								
890-7528-21 MS	BH-245 (4)	110	118								
890-7528-21 MSD	BH-245 (4)	108	117								
890-7528-22	BH-246 (4)	149 S1+	151 S1+								
890-7528-23	BH-247 (4)	182 S1+	185 S1+								
890-7528-24	BH-216 (4)	169 S1+	173 S1+								
890-7528-25	BH-219 (4)	158 S1+	159 S1+								
890-7528-26	BH-217 (4)	121	125								
890-7528-27	BH-221 (4)	157 S1+	160 S1+								
890-7528-28	BH-223 (4)	174 S1+	178 S1+								
890-7528-29	BH-222 (4)	146 S1+	151 S1+								
890-7528-30	BH-220 (4)	132 S1+	136 S1+								
890-7528-31	BH-224 (4)	121	127								
890-7528-32	SW-77	258 S1+	261 S1+								
890-7528-33	SW-78	247 S1+	253 S1+								
890-7528-34	SW-79	245 S1+	245 S1+								
LCS 880-99580/2-A	Lab Control Sample	135 S1+	133 S1+								
LCS 880-99582/2-A	Lab Control Sample	138 S1+	148 S1+								
LCSD 880-99580/3-A	Lab Control Sample Dup	149 S1+	148 S1+								
LCSD 880-99582/3-A	Lab Control Sample Dup	170 S1+	152 S1+								
MB 880-99580/1-A	Method Blank	90	87								
MB 880-99582/1-A	Method Blank	170 S1+	174 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99521/5-A
Matrix: Solid
Analysis Batch: 99379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 11:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 11:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 11:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/25 09:53	01/06/25 11:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/25 09:53	01/06/25 11:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 09:53	01/06/25 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/06/25 09:53*	*01/06/25 11:51*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/06/25 09:53*	*01/06/25 11:51*	*1*

Lab Sample ID: LCS 880-99521/1-A
Matrix: Solid
Analysis Batch: 99379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99521

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09852		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1036		mg/Kg		104	70 - 130		
Toluene			0.100	0.1062		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.1969		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1077		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-99521/2-A
Matrix: Solid
Analysis Batch: 99379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99521

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1066		mg/Kg		107	70 - 130	8	35
Ethylbenzene			0.100	0.1057		mg/Kg		106	70 - 130	2	35
Toluene			0.100	0.1091		mg/Kg		109	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2028		mg/Kg		101	70 - 130	3	35
o-Xylene			0.100	0.1098		mg/Kg		110	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-7528-1 MS
Matrix: Solid
Analysis Batch: 99379

Client Sample ID: BH-240 (4)
Prep Type: Total/NA
Prep Batch: 99521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130		
Ethylbenzene	<0.00199	U	0.0990	0.1019		mg/Kg		103	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7528-1 MS
Matrix: Solid
Analysis Batch: 99379

Client Sample ID: BH-240 (4)
Prep Type: Total/NA
Prep Batch: 99521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0990	0.1076		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1958		mg/Kg		99	70 - 130
o-Xylene	<0.00199	U	0.0990	0.1058		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-7528-1 MSD
Matrix: Solid
Analysis Batch: 99379

Client Sample ID: BH-240 (4)
Prep Type: Total/NA
Prep Batch: 99521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1154		mg/Kg		114	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.1020		mg/Kg		101	70 - 130	0	35
Toluene	<0.00199	U	0.101	0.1090		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1926		mg/Kg		96	70 - 130	2	35
o-Xylene	<0.00199	U	0.101	0.1044		mg/Kg		104	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-99528/5-A
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/06/25 10:13*	*01/06/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 10:13*	*01/06/25 11:49*	*1*

Lab Sample ID: LCS 880-99528/1-A
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1083		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2152		mg/Kg		108	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-99528/1-A
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99528

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1103		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-99528/2-A
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99528

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1101		mg/Kg		110	70 - 130	2	35
Ethylbenzene			0.100	0.1080		mg/Kg		108	70 - 130	1	35
Toluene			0.100	0.1090		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2176		mg/Kg		109	70 - 130	1	35
o-Xylene			0.100	0.1111		mg/Kg		111	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7528-21 MS
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: BH-245 (4)
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.1013		mg/Kg		100	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.09733		mg/Kg		97	70 - 130		
Toluene	<0.00199	U	0.101	0.09945		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1989		mg/Kg		99	70 - 130		
o-Xylene	<0.00199	U	0.101	0.1011		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7528-21 MSD
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: BH-245 (4)
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1037		mg/Kg		103	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09895		mg/Kg		99	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.1010		mg/Kg		101	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2021		mg/Kg		101	70 - 130	2	35
o-Xylene	<0.00199	U	0.100	0.1026		mg/Kg		102	70 - 130	1	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7528-21 MSD
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: BH-245 (4)
Prep Type: Total/NA
Prep Batch: 99528

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-99580/1-A
Matrix: Solid
Analysis Batch: 99657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/25 15:27	01/07/25 19:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/25 15:27	01/07/25 19:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/25 15:27	01/07/25 19:24	1
Total TPH	<50.0	U	50.0		mg/Kg		01/06/25 15:27	01/07/25 19:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	01/06/25 15:27	01/07/25 19:24	1
o-Terphenyl	87		70 - 130	01/06/25 15:27	01/07/25 19:24	1

Lab Sample ID: LCS 880-99580/2-A
Matrix: Solid
Analysis Batch: 99657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99580

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1296		mg/Kg		130	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1239		mg/Kg		124	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: LCSD 880-99580/3-A
Matrix: Solid
Analysis Batch: 99657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99580

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1390	*+	mg/Kg		139	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1327	*+	mg/Kg		133	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	148	S1+	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7528-1 MS
Matrix: Solid
Analysis Batch: 99657

Client Sample ID: BH-240 (4)
Prep Type: Total/NA
Prep Batch: 99580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	1000	882.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+	1000	878.8		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 890-7528-1 MSD
Matrix: Solid
Analysis Batch: 99657

Client Sample ID: BH-240 (4)
Prep Type: Total/NA
Prep Batch: 99580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	1000	921.9		mg/Kg		92	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	1000	951.0		mg/Kg		95	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: MB 880-99582/1-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 03:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 03:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 03:00	1
Total TPH	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 03:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*170*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 03:00*	*1*
o-Terphenyl	*174*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 03:00*	*1*

Lab Sample ID: LCS 880-99582/2-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1303		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1413	*+	mg/Kg		141	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99582/2-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99582

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	148	S1+	70 - 130

Lab Sample ID: LCSD 880-99582/3-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1309	*+	mg/Kg		131	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1368	*+	mg/Kg		137	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	170	S1+	70 - 130
o-Terphenyl	152	S1+	70 - 130

Lab Sample ID: 890-7528-21 MS
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: BH-245 (4)
Prep Type: Total/NA
Prep Batch: 99582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	1010	1068		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U *+	1010	1200		mg/Kg		119	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-7528-21 MSD
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: BH-245 (4)
Prep Type: Total/NA
Prep Batch: 99582

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	1010	1042		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U *+	1010	1182		mg/Kg		118	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99526/1-A
Matrix: Solid
Analysis Batch: 99532

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/06/25 12:53	1

Lab Sample ID: LCS 880-99526/2-A
Matrix: Solid
Analysis Batch: 99532

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.8		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-99526/3-A
Matrix: Solid
Analysis Batch: 99532

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	248.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-7528-1 MS
Matrix: Solid
Analysis Batch: 99532

Client Sample ID: BH-240 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	234	F1	248	540.1	F1	mg/Kg		124	90 - 110		

Lab Sample ID: 890-7528-1 MSD
Matrix: Solid
Analysis Batch: 99532

Client Sample ID: BH-240 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	234	F1	248	541.9	F1	mg/Kg		124	90 - 110	0	20

Lab Sample ID: 890-7528-11 MS
Matrix: Solid
Analysis Batch: 99532

Client Sample ID: BH-236 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	319		248	559.5		mg/Kg		97	90 - 110		

Lab Sample ID: 890-7528-11 MSD
Matrix: Solid
Analysis Batch: 99532

Client Sample ID: BH-236 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	319		248	560.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-99527/1-A
Matrix: Solid
Analysis Batch: 99538

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/06/25 16:20	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-99527/2-A
Matrix: Solid
Analysis Batch: 99538

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.2		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-99527/3-A
Matrix: Solid
Analysis Batch: 99538

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-7528-21 MS
Matrix: Solid
Analysis Batch: 99538

Client Sample ID: BH-245 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	54.5		251	313.2		mg/Kg		103	90 - 110		

Lab Sample ID: 890-7528-21 MSD
Matrix: Solid
Analysis Batch: 99538

Client Sample ID: BH-245 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	54.5		251	313.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7528-31 MS
Matrix: Solid
Analysis Batch: 99538

Client Sample ID: BH-224 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7880	F1	2520	10780	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 890-7528-31 MSD
Matrix: Solid
Analysis Batch: 99538

Client Sample ID: BH-224 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7880	F1	2520	10780	F1	mg/Kg		115	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Total/NA	Solid	8021B	99521
890-7528-2	BH-225 (4)	Total/NA	Solid	8021B	99521
890-7528-3	BH-226 (4)	Total/NA	Solid	8021B	99521
890-7528-4	BH-238 (4)	Total/NA	Solid	8021B	99521
890-7528-5	BH-227 (4)	Total/NA	Solid	8021B	99521
890-7528-6	BH-229 (4)	Total/NA	Solid	8021B	99521
890-7528-7	BH-231 (4)	Total/NA	Solid	8021B	99521
890-7528-8	BH-234 (4)	Total/NA	Solid	8021B	99521
890-7528-9	BH-239 (4)	Total/NA	Solid	8021B	99521
890-7528-10	BH-232 (4)	Total/NA	Solid	8021B	99521
890-7528-11	BH-236 (4)	Total/NA	Solid	8021B	99521
890-7528-12	BH-237 (4)	Total/NA	Solid	8021B	99521
890-7528-13	BH-233 (4)	Total/NA	Solid	8021B	99521
890-7528-14	BH-230 (4)	Total/NA	Solid	8021B	99521
890-7528-15	BH-235 (4)	Total/NA	Solid	8021B	99521
890-7528-16	BH-218 (4)	Total/NA	Solid	8021B	99521
890-7528-17	BH-241 (4)	Total/NA	Solid	8021B	99521
890-7528-18	BH-242 (4)	Total/NA	Solid	8021B	99521
890-7528-19	BH-243 (4)	Total/NA	Solid	8021B	99521
890-7528-20	BH-244 (4)	Total/NA	Solid	8021B	99521
MB 880-99521/5-A	Method Blank	Total/NA	Solid	8021B	99521
LCS 880-99521/1-A	Lab Control Sample	Total/NA	Solid	8021B	99521
LCSD 880-99521/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99521
890-7528-1 MS	BH-240 (4)	Total/NA	Solid	8021B	99521
890-7528-1 MSD	BH-240 (4)	Total/NA	Solid	8021B	99521

Analysis Batch: 99489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-21	BH-245 (4)	Total/NA	Solid	8021B	99528
890-7528-22	BH-246 (4)	Total/NA	Solid	8021B	99528
890-7528-23	BH-247 (4)	Total/NA	Solid	8021B	99528
890-7528-24	BH-216 (4)	Total/NA	Solid	8021B	99528
890-7528-25	BH-219 (4)	Total/NA	Solid	8021B	99528
890-7528-26	BH-217 (4)	Total/NA	Solid	8021B	99528
890-7528-27	BH-221 (4)	Total/NA	Solid	8021B	99528
890-7528-28	BH-223 (4)	Total/NA	Solid	8021B	99528
890-7528-29	BH-222 (4)	Total/NA	Solid	8021B	99528
890-7528-30	BH-220 (4)	Total/NA	Solid	8021B	99528
890-7528-31	BH-224 (4)	Total/NA	Solid	8021B	99528
890-7528-32	SW-77	Total/NA	Solid	8021B	99528
890-7528-33	SW-78	Total/NA	Solid	8021B	99528
890-7528-34	SW-79	Total/NA	Solid	8021B	99528
MB 880-99528/5-A	Method Blank	Total/NA	Solid	8021B	99528
LCS 880-99528/1-A	Lab Control Sample	Total/NA	Solid	8021B	99528
LCSD 880-99528/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99528
890-7528-21 MS	BH-245 (4)	Total/NA	Solid	8021B	99528
890-7528-21 MSD	BH-245 (4)	Total/NA	Solid	8021B	99528

Prep Batch: 99521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 99521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-2	BH-225 (4)	Total/NA	Solid	5035	
890-7528-3	BH-226 (4)	Total/NA	Solid	5035	
890-7528-4	BH-238 (4)	Total/NA	Solid	5035	
890-7528-5	BH-227 (4)	Total/NA	Solid	5035	
890-7528-6	BH-229 (4)	Total/NA	Solid	5035	
890-7528-7	BH-231 (4)	Total/NA	Solid	5035	
890-7528-8	BH-234 (4)	Total/NA	Solid	5035	
890-7528-9	BH-239 (4)	Total/NA	Solid	5035	
890-7528-10	BH-232 (4)	Total/NA	Solid	5035	
890-7528-11	BH-236 (4)	Total/NA	Solid	5035	
890-7528-12	BH-237 (4)	Total/NA	Solid	5035	
890-7528-13	BH-233 (4)	Total/NA	Solid	5035	
890-7528-14	BH-230 (4)	Total/NA	Solid	5035	
890-7528-15	BH-235 (4)	Total/NA	Solid	5035	
890-7528-16	BH-218 (4)	Total/NA	Solid	5035	
890-7528-17	BH-241 (4)	Total/NA	Solid	5035	
890-7528-18	BH-242 (4)	Total/NA	Solid	5035	
890-7528-19	BH-243 (4)	Total/NA	Solid	5035	
890-7528-20	BH-244 (4)	Total/NA	Solid	5035	
MB 880-99521/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99521/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99521/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7528-1 MS	BH-240 (4)	Total/NA	Solid	5035	
890-7528-1 MSD	BH-240 (4)	Total/NA	Solid	5035	

Prep Batch: 99528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-21	BH-245 (4)	Total/NA	Solid	5035	
890-7528-22	BH-246 (4)	Total/NA	Solid	5035	
890-7528-23	BH-247 (4)	Total/NA	Solid	5035	
890-7528-24	BH-216 (4)	Total/NA	Solid	5035	
890-7528-25	BH-219 (4)	Total/NA	Solid	5035	
890-7528-26	BH-217 (4)	Total/NA	Solid	5035	
890-7528-27	BH-221 (4)	Total/NA	Solid	5035	
890-7528-28	BH-223 (4)	Total/NA	Solid	5035	
890-7528-29	BH-222 (4)	Total/NA	Solid	5035	
890-7528-30	BH-220 (4)	Total/NA	Solid	5035	
890-7528-31	BH-224 (4)	Total/NA	Solid	5035	
890-7528-32	SW-77	Total/NA	Solid	5035	
890-7528-33	SW-78	Total/NA	Solid	5035	
890-7528-34	SW-79	Total/NA	Solid	5035	
MB 880-99528/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99528/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99528/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7528-21 MS	BH-245 (4)	Total/NA	Solid	5035	
890-7528-21 MSD	BH-245 (4)	Total/NA	Solid	5035	

Analysis Batch: 99673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Total/NA	Solid	Total BTEX	
890-7528-2	BH-225 (4)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 99673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-3	BH-226 (4)	Total/NA	Solid	Total BTEX	
890-7528-4	BH-238 (4)	Total/NA	Solid	Total BTEX	
890-7528-5	BH-227 (4)	Total/NA	Solid	Total BTEX	
890-7528-6	BH-229 (4)	Total/NA	Solid	Total BTEX	
890-7528-7	BH-231 (4)	Total/NA	Solid	Total BTEX	
890-7528-8	BH-234 (4)	Total/NA	Solid	Total BTEX	
890-7528-9	BH-239 (4)	Total/NA	Solid	Total BTEX	
890-7528-10	BH-232 (4)	Total/NA	Solid	Total BTEX	
890-7528-11	BH-236 (4)	Total/NA	Solid	Total BTEX	
890-7528-12	BH-237 (4)	Total/NA	Solid	Total BTEX	
890-7528-13	BH-233 (4)	Total/NA	Solid	Total BTEX	
890-7528-14	BH-230 (4)	Total/NA	Solid	Total BTEX	
890-7528-15	BH-235 (4)	Total/NA	Solid	Total BTEX	
890-7528-16	BH-218 (4)	Total/NA	Solid	Total BTEX	
890-7528-17	BH-241 (4)	Total/NA	Solid	Total BTEX	
890-7528-18	BH-242 (4)	Total/NA	Solid	Total BTEX	
890-7528-19	BH-243 (4)	Total/NA	Solid	Total BTEX	
890-7528-20	BH-244 (4)	Total/NA	Solid	Total BTEX	
890-7528-21	BH-245 (4)	Total/NA	Solid	Total BTEX	
890-7528-22	BH-246 (4)	Total/NA	Solid	Total BTEX	
890-7528-23	BH-247 (4)	Total/NA	Solid	Total BTEX	
890-7528-24	BH-216 (4)	Total/NA	Solid	Total BTEX	
890-7528-25	BH-219 (4)	Total/NA	Solid	Total BTEX	
890-7528-26	BH-217 (4)	Total/NA	Solid	Total BTEX	
890-7528-27	BH-221 (4)	Total/NA	Solid	Total BTEX	
890-7528-28	BH-223 (4)	Total/NA	Solid	Total BTEX	
890-7528-29	BH-222 (4)	Total/NA	Solid	Total BTEX	
890-7528-30	BH-220 (4)	Total/NA	Solid	Total BTEX	
890-7528-31	BH-224 (4)	Total/NA	Solid	Total BTEX	
890-7528-32	SW-77	Total/NA	Solid	Total BTEX	
890-7528-33	SW-78	Total/NA	Solid	Total BTEX	
890-7528-34	SW-79	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Total/NA	Solid	8015NM Prep	
890-7528-2	BH-225 (4)	Total/NA	Solid	8015NM Prep	
890-7528-3	BH-226 (4)	Total/NA	Solid	8015NM Prep	
890-7528-4	BH-238 (4)	Total/NA	Solid	8015NM Prep	
890-7528-5	BH-227 (4)	Total/NA	Solid	8015NM Prep	
890-7528-6	BH-229 (4)	Total/NA	Solid	8015NM Prep	
890-7528-7	BH-231 (4)	Total/NA	Solid	8015NM Prep	
890-7528-8	BH-234 (4)	Total/NA	Solid	8015NM Prep	
890-7528-9	BH-239 (4)	Total/NA	Solid	8015NM Prep	
890-7528-10	BH-232 (4)	Total/NA	Solid	8015NM Prep	
890-7528-11	BH-236 (4)	Total/NA	Solid	8015NM Prep	
890-7528-12	BH-237 (4)	Total/NA	Solid	8015NM Prep	
890-7528-13	BH-233 (4)	Total/NA	Solid	8015NM Prep	
890-7528-14	BH-230 (4)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 99580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-15	BH-235 (4)	Total/NA	Solid	8015NM Prep	
890-7528-16	BH-218 (4)	Total/NA	Solid	8015NM Prep	
890-7528-17	BH-241 (4)	Total/NA	Solid	8015NM Prep	
890-7528-18	BH-242 (4)	Total/NA	Solid	8015NM Prep	
890-7528-19	BH-243 (4)	Total/NA	Solid	8015NM Prep	
890-7528-20	BH-244 (4)	Total/NA	Solid	8015NM Prep	
MB 880-99580/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99580/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99580/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7528-1 MS	BH-240 (4)	Total/NA	Solid	8015NM Prep	
890-7528-1 MSD	BH-240 (4)	Total/NA	Solid	8015NM Prep	

Prep Batch: 99582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-21	BH-245 (4)	Total/NA	Solid	8015NM Prep	
890-7528-22	BH-246 (4)	Total/NA	Solid	8015NM Prep	
890-7528-23	BH-247 (4)	Total/NA	Solid	8015NM Prep	
890-7528-24	BH-216 (4)	Total/NA	Solid	8015NM Prep	
890-7528-25	BH-219 (4)	Total/NA	Solid	8015NM Prep	
890-7528-26	BH-217 (4)	Total/NA	Solid	8015NM Prep	
890-7528-27	BH-221 (4)	Total/NA	Solid	8015NM Prep	
890-7528-28	BH-223 (4)	Total/NA	Solid	8015NM Prep	
890-7528-29	BH-222 (4)	Total/NA	Solid	8015NM Prep	
890-7528-30	BH-220 (4)	Total/NA	Solid	8015NM Prep	
890-7528-31	BH-224 (4)	Total/NA	Solid	8015NM Prep	
890-7528-32	SW-77	Total/NA	Solid	8015NM Prep	
890-7528-33	SW-78	Total/NA	Solid	8015NM Prep	
890-7528-34	SW-79	Total/NA	Solid	8015NM Prep	
MB 880-99582/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99582/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7528-21 MS	BH-245 (4)	Total/NA	Solid	8015NM Prep	
890-7528-21 MSD	BH-245 (4)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Total/NA	Solid	8015B NM	99580
890-7528-2	BH-225 (4)	Total/NA	Solid	8015B NM	99580
890-7528-3	BH-226 (4)	Total/NA	Solid	8015B NM	99580
890-7528-4	BH-238 (4)	Total/NA	Solid	8015B NM	99580
890-7528-5	BH-227 (4)	Total/NA	Solid	8015B NM	99580
890-7528-6	BH-229 (4)	Total/NA	Solid	8015B NM	99580
890-7528-7	BH-231 (4)	Total/NA	Solid	8015B NM	99580
890-7528-8	BH-234 (4)	Total/NA	Solid	8015B NM	99580
890-7528-9	BH-239 (4)	Total/NA	Solid	8015B NM	99580
890-7528-10	BH-232 (4)	Total/NA	Solid	8015B NM	99580
890-7528-11	BH-236 (4)	Total/NA	Solid	8015B NM	99580
890-7528-12	BH-237 (4)	Total/NA	Solid	8015B NM	99580
890-7528-13	BH-233 (4)	Total/NA	Solid	8015B NM	99580
890-7528-14	BH-230 (4)	Total/NA	Solid	8015B NM	99580
890-7528-15	BH-235 (4)	Total/NA	Solid	8015B NM	99580

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 99657 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-16	BH-218 (4)	Total/NA	Solid	8015B NM	99580
890-7528-17	BH-241 (4)	Total/NA	Solid	8015B NM	99580
890-7528-18	BH-242 (4)	Total/NA	Solid	8015B NM	99580
890-7528-19	BH-243 (4)	Total/NA	Solid	8015B NM	99580
890-7528-20	BH-244 (4)	Total/NA	Solid	8015B NM	99580
MB 880-99580/1-A	Method Blank	Total/NA	Solid	8015B NM	99580
LCS 880-99580/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99580
LCSD 880-99580/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99580
890-7528-1 MS	BH-240 (4)	Total/NA	Solid	8015B NM	99580
890-7528-1 MSD	BH-240 (4)	Total/NA	Solid	8015B NM	99580

Analysis Batch: 99763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-21	BH-245 (4)	Total/NA	Solid	8015B NM	99582
890-7528-22	BH-246 (4)	Total/NA	Solid	8015B NM	99582
890-7528-23	BH-247 (4)	Total/NA	Solid	8015B NM	99582
890-7528-24	BH-216 (4)	Total/NA	Solid	8015B NM	99582
890-7528-25	BH-219 (4)	Total/NA	Solid	8015B NM	99582
890-7528-26	BH-217 (4)	Total/NA	Solid	8015B NM	99582
890-7528-27	BH-221 (4)	Total/NA	Solid	8015B NM	99582
890-7528-28	BH-223 (4)	Total/NA	Solid	8015B NM	99582
890-7528-29	BH-222 (4)	Total/NA	Solid	8015B NM	99582
890-7528-30	BH-220 (4)	Total/NA	Solid	8015B NM	99582
890-7528-31	BH-224 (4)	Total/NA	Solid	8015B NM	99582
890-7528-32	SW-77	Total/NA	Solid	8015B NM	99582
890-7528-33	SW-78	Total/NA	Solid	8015B NM	99582
890-7528-34	SW-79	Total/NA	Solid	8015B NM	99582
MB 880-99582/1-A	Method Blank	Total/NA	Solid	8015B NM	99582
LCS 880-99582/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99582
LCSD 880-99582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99582
890-7528-21 MS	BH-245 (4)	Total/NA	Solid	8015B NM	99582
890-7528-21 MSD	BH-245 (4)	Total/NA	Solid	8015B NM	99582

Analysis Batch: 99765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Total/NA	Solid	8015 NM	
890-7528-2	BH-225 (4)	Total/NA	Solid	8015 NM	
890-7528-3	BH-226 (4)	Total/NA	Solid	8015 NM	
890-7528-4	BH-238 (4)	Total/NA	Solid	8015 NM	
890-7528-5	BH-227 (4)	Total/NA	Solid	8015 NM	
890-7528-6	BH-229 (4)	Total/NA	Solid	8015 NM	
890-7528-7	BH-231 (4)	Total/NA	Solid	8015 NM	
890-7528-8	BH-234 (4)	Total/NA	Solid	8015 NM	
890-7528-9	BH-239 (4)	Total/NA	Solid	8015 NM	
890-7528-10	BH-232 (4)	Total/NA	Solid	8015 NM	
890-7528-11	BH-236 (4)	Total/NA	Solid	8015 NM	
890-7528-12	BH-237 (4)	Total/NA	Solid	8015 NM	
890-7528-13	BH-233 (4)	Total/NA	Solid	8015 NM	
890-7528-14	BH-230 (4)	Total/NA	Solid	8015 NM	
890-7528-15	BH-235 (4)	Total/NA	Solid	8015 NM	
890-7528-16	BH-218 (4)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 99765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-17	BH-241 (4)	Total/NA	Solid	8015 NM	
890-7528-18	BH-242 (4)	Total/NA	Solid	8015 NM	
890-7528-19	BH-243 (4)	Total/NA	Solid	8015 NM	
890-7528-20	BH-244 (4)	Total/NA	Solid	8015 NM	
890-7528-21	BH-245 (4)	Total/NA	Solid	8015 NM	
890-7528-22	BH-246 (4)	Total/NA	Solid	8015 NM	
890-7528-23	BH-247 (4)	Total/NA	Solid	8015 NM	
890-7528-24	BH-216 (4)	Total/NA	Solid	8015 NM	
890-7528-25	BH-219 (4)	Total/NA	Solid	8015 NM	
890-7528-26	BH-217 (4)	Total/NA	Solid	8015 NM	
890-7528-27	BH-221 (4)	Total/NA	Solid	8015 NM	
890-7528-28	BH-223 (4)	Total/NA	Solid	8015 NM	
890-7528-29	BH-222 (4)	Total/NA	Solid	8015 NM	
890-7528-30	BH-220 (4)	Total/NA	Solid	8015 NM	
890-7528-31	BH-224 (4)	Total/NA	Solid	8015 NM	
890-7528-32	SW-77	Total/NA	Solid	8015 NM	
890-7528-33	SW-78	Total/NA	Solid	8015 NM	
890-7528-34	SW-79	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Soluble	Solid	DI Leach	
890-7528-2	BH-225 (4)	Soluble	Solid	DI Leach	
890-7528-3	BH-226 (4)	Soluble	Solid	DI Leach	
890-7528-4	BH-238 (4)	Soluble	Solid	DI Leach	
890-7528-5	BH-227 (4)	Soluble	Solid	DI Leach	
890-7528-6	BH-229 (4)	Soluble	Solid	DI Leach	
890-7528-7	BH-231 (4)	Soluble	Solid	DI Leach	
890-7528-8	BH-234 (4)	Soluble	Solid	DI Leach	
890-7528-9	BH-239 (4)	Soluble	Solid	DI Leach	
890-7528-10	BH-232 (4)	Soluble	Solid	DI Leach	
890-7528-11	BH-236 (4)	Soluble	Solid	DI Leach	
890-7528-12	BH-237 (4)	Soluble	Solid	DI Leach	
890-7528-13	BH-233 (4)	Soluble	Solid	DI Leach	
890-7528-14	BH-230 (4)	Soluble	Solid	DI Leach	
890-7528-15	BH-235 (4)	Soluble	Solid	DI Leach	
890-7528-16	BH-218 (4)	Soluble	Solid	DI Leach	
890-7528-17	BH-241 (4)	Soluble	Solid	DI Leach	
890-7528-18	BH-242 (4)	Soluble	Solid	DI Leach	
890-7528-19	BH-243 (4)	Soluble	Solid	DI Leach	
890-7528-20	BH-244 (4)	Soluble	Solid	DI Leach	
MB 880-99526/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99526/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99526/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7528-1 MS	BH-240 (4)	Soluble	Solid	DI Leach	
890-7528-1 MSD	BH-240 (4)	Soluble	Solid	DI Leach	
890-7528-11 MS	BH-236 (4)	Soluble	Solid	DI Leach	
890-7528-11 MSD	BH-236 (4)	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 99527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-21	BH-245 (4)	Soluble	Solid	DI Leach	
890-7528-22	BH-246 (4)	Soluble	Solid	DI Leach	
890-7528-23	BH-247 (4)	Soluble	Solid	DI Leach	
890-7528-24	BH-216 (4)	Soluble	Solid	DI Leach	
890-7528-25	BH-219 (4)	Soluble	Solid	DI Leach	
890-7528-26	BH-217 (4)	Soluble	Solid	DI Leach	
890-7528-27	BH-221 (4)	Soluble	Solid	DI Leach	
890-7528-28	BH-223 (4)	Soluble	Solid	DI Leach	
890-7528-29	BH-222 (4)	Soluble	Solid	DI Leach	
890-7528-30	BH-220 (4)	Soluble	Solid	DI Leach	
890-7528-31	BH-224 (4)	Soluble	Solid	DI Leach	
890-7528-32	SW-77	Soluble	Solid	DI Leach	
890-7528-33	SW-78	Soluble	Solid	DI Leach	
890-7528-34	SW-79	Soluble	Solid	DI Leach	
MB 880-99527/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99527/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99527/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7528-21 MS	BH-245 (4)	Soluble	Solid	DI Leach	
890-7528-21 MSD	BH-245 (4)	Soluble	Solid	DI Leach	
890-7528-31 MS	BH-224 (4)	Soluble	Solid	DI Leach	
890-7528-31 MSD	BH-224 (4)	Soluble	Solid	DI Leach	

Analysis Batch: 99532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-1	BH-240 (4)	Soluble	Solid	300.0	99526
890-7528-2	BH-225 (4)	Soluble	Solid	300.0	99526
890-7528-3	BH-226 (4)	Soluble	Solid	300.0	99526
890-7528-4	BH-238 (4)	Soluble	Solid	300.0	99526
890-7528-5	BH-227 (4)	Soluble	Solid	300.0	99526
890-7528-6	BH-229 (4)	Soluble	Solid	300.0	99526
890-7528-7	BH-231 (4)	Soluble	Solid	300.0	99526
890-7528-8	BH-234 (4)	Soluble	Solid	300.0	99526
890-7528-9	BH-239 (4)	Soluble	Solid	300.0	99526
890-7528-10	BH-232 (4)	Soluble	Solid	300.0	99526
890-7528-11	BH-236 (4)	Soluble	Solid	300.0	99526
890-7528-12	BH-237 (4)	Soluble	Solid	300.0	99526
890-7528-13	BH-233 (4)	Soluble	Solid	300.0	99526
890-7528-14	BH-230 (4)	Soluble	Solid	300.0	99526
890-7528-15	BH-235 (4)	Soluble	Solid	300.0	99526
890-7528-16	BH-218 (4)	Soluble	Solid	300.0	99526
890-7528-17	BH-241 (4)	Soluble	Solid	300.0	99526
890-7528-18	BH-242 (4)	Soluble	Solid	300.0	99526
890-7528-19	BH-243 (4)	Soluble	Solid	300.0	99526
890-7528-20	BH-244 (4)	Soluble	Solid	300.0	99526
MB 880-99526/1-A	Method Blank	Soluble	Solid	300.0	99526
LCS 880-99526/2-A	Lab Control Sample	Soluble	Solid	300.0	99526
LCSD 880-99526/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99526
890-7528-1 MS	BH-240 (4)	Soluble	Solid	300.0	99526
890-7528-1 MSD	BH-240 (4)	Soluble	Solid	300.0	99526
890-7528-11 MS	BH-236 (4)	Soluble	Solid	300.0	99526
890-7528-11 MSD	BH-236 (4)	Soluble	Solid	300.0	99526

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 99538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7528-21	BH-245 (4)	Soluble	Solid	300.0	99527
890-7528-22	BH-246 (4)	Soluble	Solid	300.0	99527
890-7528-23	BH-247 (4)	Soluble	Solid	300.0	99527
890-7528-24	BH-216 (4)	Soluble	Solid	300.0	99527
890-7528-25	BH-219 (4)	Soluble	Solid	300.0	99527
890-7528-26	BH-217 (4)	Soluble	Solid	300.0	99527
890-7528-27	BH-221 (4)	Soluble	Solid	300.0	99527
890-7528-28	BH-223 (4)	Soluble	Solid	300.0	99527
890-7528-29	BH-222 (4)	Soluble	Solid	300.0	99527
890-7528-30	BH-220 (4)	Soluble	Solid	300.0	99527
890-7528-31	BH-224 (4)	Soluble	Solid	300.0	99527
890-7528-32	SW-77	Soluble	Solid	300.0	99527
890-7528-33	SW-78	Soluble	Solid	300.0	99527
890-7528-34	SW-79	Soluble	Solid	300.0	99527
MB 880-99527/1-A	Method Blank	Soluble	Solid	300.0	99527
LCS 880-99527/2-A	Lab Control Sample	Soluble	Solid	300.0	99527
LCSD 880-99527/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99527
890-7528-21 MS	BH-245 (4)	Soluble	Solid	300.0	99527
890-7528-21 MSD	BH-245 (4)	Soluble	Solid	300.0	99527
890-7528-31 MS	BH-224 (4)	Soluble	Solid	300.0	99527
890-7528-31 MSD	BH-224 (4)	Soluble	Solid	300.0	99527

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-240 (4)

Date Collected: 01/02/25 08:00
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 12:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 20:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 20:11	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 13:10	CH	EET MID

Client Sample ID: BH-225 (4)

Date Collected: 01/02/25 08:05
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 12:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 12:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 20:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 20:59	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99532	01/06/25 13:28	CH	EET MID

Client Sample ID: BH-226 (4)

Date Collected: 01/02/25 08:10
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 12:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 21:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 21:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99532	01/06/25 13:34	CH	EET MID

Client Sample ID: BH-238 (4)

Date Collected: 01/02/25 08:15
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 13:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 13:14	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-238 (4)

Date Collected: 01/02/25 08:15
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99765	01/07/25 21:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 21:31	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 13:40	CH	EET MID

Client Sample ID: BH-227 (4)

Date Collected: 01/02/25 08:20
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 13:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 21:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 21:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	99532	01/06/25 13:46	CH	EET MID

Client Sample ID: BH-229 (4)

Date Collected: 01/02/25 08:25
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 13:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 13:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 22:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 22:02	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99532	01/06/25 14:04	CH	EET MID

Client Sample ID: BH-231 (4)

Date Collected: 01/02/25 08:30
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 14:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 22:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 22:18	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-231 (4)

Lab Sample ID: 890-7528-7
Matrix: Solid
Date Collected: 01/02/25 08:30
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 14:09	CH	EET MID

Client Sample ID: BH-234 (4)

Lab Sample ID: 890-7528-8
Matrix: Solid
Date Collected: 01/02/25 08:35
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 14:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 22:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 22:34	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 14:15	CH	EET MID

Client Sample ID: BH-239 (4)

Lab Sample ID: 890-7528-9
Matrix: Solid
Date Collected: 01/02/25 08:40
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 14:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 22:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 22:50	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 14:21	CH	EET MID

Client Sample ID: BH-232 (4)

Lab Sample ID: 890-7528-10
Matrix: Solid
Date Collected: 01/02/25 08:45
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 23:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 23:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 14:27	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-236 (4)

Lab Sample ID: 890-7528-11
Matrix: Solid
Date Collected: 01/02/25 08:50
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 16:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 16:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 23:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 23:37	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 14:33	CH	EET MID

Client Sample ID: BH-237 (4)

Lab Sample ID: 890-7528-12
Matrix: Solid
Date Collected: 01/02/25 08:55
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 17:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/07/25 23:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/07/25 23:52	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99532	01/06/25 14:51	CH	EET MID

Client Sample ID: BH-233 (4)

Lab Sample ID: 890-7528-13
Matrix: Solid
Date Collected: 01/02/25 09:00
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 17:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 17:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 00:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 00:09	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 14:57	CH	EET MID

Client Sample ID: BH-230 (4)

Lab Sample ID: 890-7528-14
Matrix: Solid
Date Collected: 01/02/25 09:05
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 17:53	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-230 (4)

Lab Sample ID: 890-7528-14

Date Collected: 01/02/25 09:05
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99765	01/08/25 00:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 00:24	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 15:15	CH	EET MID

Client Sample ID: BH-235 (4)

Lab Sample ID: 890-7528-15

Date Collected: 01/02/25 09:10
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 18:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 18:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 00:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 00:40	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 15:21	CH	EET MID

Client Sample ID: BH-218 (4)

Lab Sample ID: 890-7528-16

Date Collected: 01/02/25 09:15
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 18:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 00:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 00:56	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 15:26	CH	EET MID

Client Sample ID: BH-241 (4)

Lab Sample ID: 890-7528-17

Date Collected: 01/02/25 09:20
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 18:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 18:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 01:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 01:11	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-241 (4)

Date Collected: 01/02/25 09:20
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 15:32	CH	EET MID

Client Sample ID: BH-242 (4)

Date Collected: 01/02/25 09:25
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 19:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 19:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 01:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 01:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 15:38	CH	EET MID

Client Sample ID: BH-243 (4)

Date Collected: 01/02/25 09:30
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 01:42	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 15:44	CH	EET MID

Client Sample ID: BH-244 (4)

Date Collected: 01/02/25 09:35
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	99521	01/06/25 09:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99379	01/06/25 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 01:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99580	01/06/25 15:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99657	01/08/25 01:57	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99526	01/06/25 10:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99532	01/06/25 15:50	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-245 (4)

Lab Sample ID: 890-7528-21

Date Collected: 01/02/25 09:40
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 09:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 16:37	CH	EET MID

Client Sample ID: BH-246 (4)

Lab Sample ID: 890-7528-22

Date Collected: 01/02/25 09:45
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 12:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 10:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 10:39	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 16:55	CH	EET MID

Client Sample ID: BH-247 (4)

Lab Sample ID: 890-7528-23

Date Collected: 01/02/25 09:50
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 10:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 17:01	CH	EET MID

Client Sample ID: BH-216 (4)

Lab Sample ID: 890-7528-24

Date Collected: 01/02/25 09:55
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 13:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 13:53	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-216 (4)

Lab Sample ID: 890-7528-24
Matrix: Solid
Date Collected: 01/02/25 09:55
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99765	01/08/25 11:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 11:11	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 17:07	CH	EET MID

Client Sample ID: BH-219 (4)

Lab Sample ID: 890-7528-25
Matrix: Solid
Date Collected: 01/02/25 10:00
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 19:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 11:27	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 17:13	CH	EET MID

Client Sample ID: BH-217 (4)

Lab Sample ID: 890-7528-26
Matrix: Solid
Date Collected: 01/02/25 10:05
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 19:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 19:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 11:42	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99538	01/06/25 17:31	CH	EET MID

Client Sample ID: BH-221 (4)

Lab Sample ID: 890-7528-27
Matrix: Solid
Date Collected: 01/02/25 10:10
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 11:58	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-221 (4)

Date Collected: 01/02/25 10:10
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 17:37	CH	EET MID

Client Sample ID: BH-223 (4)

Date Collected: 01/02/25 10:15
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 14:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 14:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 12:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 12:12	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 17:43	CH	EET MID

Client Sample ID: BH-222 (4)

Date Collected: 01/02/25 10:20
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 14:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 12:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 12:28	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99538	01/06/25 17:48	CH	EET MID

Client Sample ID: BH-220 (4)

Date Collected: 01/02/25 10:25
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 15:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 12:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 17:54	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: BH-224 (4)

Lab Sample ID: 890-7528-31

Date Collected: 01/02/25 10:30
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 13:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 13:14	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99538	01/06/25 18:00	CH	EET MID

Client Sample ID: SW-77

Lab Sample ID: 890-7528-32

Date Collected: 01/02/25 10:35
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 13:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 13:29	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 18:18	CH	EET MID

Client Sample ID: SW-78

Lab Sample ID: 890-7528-33

Date Collected: 01/02/25 10:40
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99765	01/08/25 13:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 13:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 18:24	CH	EET MID

Client Sample ID: SW-79

Lab Sample ID: 890-7528-34

Date Collected: 01/02/25 10:45
Matrix: Solid
Date Received: 01/03/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99673	01/06/25 17:51	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Client Sample ID: SW-79
Date Collected: 01/02/25 10:45
Date Received: 01/03/25 14:07

Lab Sample ID: 890-7528-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99765	01/08/25 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 14:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99527	01/06/25 10:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99538	01/06/25 18:41	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7528-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7528-1	BH-240 (4)	Solid	01/02/25 08:00	01/03/25 14:07
890-7528-2	BH-225 (4)	Solid	01/02/25 08:05	01/03/25 14:07
890-7528-3	BH-226 (4)	Solid	01/02/25 08:10	01/03/25 14:07
890-7528-4	BH-238 (4)	Solid	01/02/25 08:15	01/03/25 14:07
890-7528-5	BH-227 (4)	Solid	01/02/25 08:20	01/03/25 14:07
890-7528-6	BH-229 (4)	Solid	01/02/25 08:25	01/03/25 14:07
890-7528-7	BH-231 (4)	Solid	01/02/25 08:30	01/03/25 14:07
890-7528-8	BH-234 (4)	Solid	01/02/25 08:35	01/03/25 14:07
890-7528-9	BH-239 (4)	Solid	01/02/25 08:40	01/03/25 14:07
890-7528-10	BH-232 (4)	Solid	01/02/25 08:45	01/03/25 14:07
890-7528-11	BH-236 (4)	Solid	01/02/25 08:50	01/03/25 14:07
890-7528-12	BH-237 (4)	Solid	01/02/25 08:55	01/03/25 14:07
890-7528-13	BH-233 (4)	Solid	01/02/25 09:00	01/03/25 14:07
890-7528-14	BH-230 (4)	Solid	01/02/25 09:05	01/03/25 14:07
890-7528-15	BH-235 (4)	Solid	01/02/25 09:10	01/03/25 14:07
890-7528-16	BH-218 (4)	Solid	01/02/25 09:15	01/03/25 14:07
890-7528-17	BH-241 (4)	Solid	01/02/25 09:20	01/03/25 14:07
890-7528-18	BH-242 (4)	Solid	01/02/25 09:25	01/03/25 14:07
890-7528-19	BH-243 (4)	Solid	01/02/25 09:30	01/03/25 14:07
890-7528-20	BH-244 (4)	Solid	01/02/25 09:35	01/03/25 14:07
890-7528-21	BH-245 (4)	Solid	01/02/25 09:40	01/03/25 14:07
890-7528-22	BH-246 (4)	Solid	01/02/25 09:45	01/03/25 14:07
890-7528-23	BH-247 (4)	Solid	01/02/25 09:50	01/03/25 14:07
890-7528-24	BH-216 (4)	Solid	01/02/25 09:55	01/03/25 14:07
890-7528-25	BH-219 (4)	Solid	01/02/25 10:00	01/03/25 14:07
890-7528-26	BH-217 (4)	Solid	01/02/25 10:05	01/03/25 14:07
890-7528-27	BH-221 (4)	Solid	01/02/25 10:10	01/03/25 14:07
890-7528-28	BH-223 (4)	Solid	01/02/25 10:15	01/03/25 14:07
890-7528-29	BH-222 (4)	Solid	01/02/25 10:20	01/03/25 14:07
890-7528-30	BH-220 (4)	Solid	01/02/25 10:25	01/03/25 14:07
890-7528-31	BH-224 (4)	Solid	01/02/25 10:30	01/03/25 14:07
890-7528-32	SW-77	Solid	01/02/25 10:35	01/03/25 14:07
890-7528-33	SW-78	Solid	01/02/25 10:40	01/03/25 14:07
890-7528-34	SW-79	Solid	01/02/25 10:45	01/03/25 14:07

Page 930 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7528 Chain of Custody

1/8/2025

Client Name: Solaris	Site Manager: Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2025)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance						Hold
	BH-240 (4')	1/2/2025	8:00		X				X				X			X												X								
	BH-225 (4')	1/2/2025	8:05		X				X				X			X												X								
	BH-226 (4')	1/2/2025	8:10		X				X				X			X												X								
	BH-238 (4')	1/2/2025	8:15		X				X				X			X												X								
	BH-227 (4')	1/2/2025	8:20		X				X				X			X												X								
	BH-229 (4')	1/2/2025	8:25		X				X				X			X												X								
	BH-231 (4')	1/2/2025	8:30		X				X				X			X												X								
	BH-234 (4')	1/2/2025	8:35		X				X				X			X												X								
	BH-239 (4')	1/2/2025	8:40		X				X				X			X												X								
	BH-232 (4')	1/2/2025	8:45		X				X				X			X												X								

Page 67 of 72

Relinquished by:	Date: 01.03.25	Time: 13:30	Received by: Date: 01.03.25 Time: 13:30
Relinquished by:	Date: 01.03.25	Time:	Received by: Date: 1/3 Time: 16:07
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 1.6

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 931 of 1592

Analysis Request of Chain of Custody Record

1/8/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	BH-236 (4')	1/2/2025	8:50		X			X			X		X												X								
	BH-237 (4')	1/2/2025	8:55		X			X			X		X												X								
	BH-233 (4')	1/2/2025	9:00		X			X			X		X												X								
	BH-230 (4')	1/2/2025	9:05		X			X			X		X												X								
	BH-235 (4')	1/2/2025	9:10		X			X			X		X												X								
	BH-218 (4')	1/2/2025	9:15		X			X			X		X												X								
	BH-241 (4')	1/2/2025	9:20		X			X			X		X												X								
	BH-242 (4')	1/2/2025	9:25		X			X			X		X												X								
	BH-243 (4')	1/2/2025	9:30		X			X			X		X												X								
	BH-244 (4')	1/2/2025	9:35		X			X			X		X												X								

Relinquished by:	Date: 01.03.25	Time: 13:30	Received by: Date: 1/03/25 Time: 13:30
Relinquished by:	Date: 01.03.25	Time:	Received by: Date: 14:07 Time: 1/3
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 1.6

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 60 of 72

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 932 of 1592

Analysis Request of Chain of Custody Record

Page 3 of 4

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-245 (4')	1/2/2025	9:40		X			X			X			X												X				
	BH-246 (4')	1/2/2025	9:45		X			X			X			X												X				
	BH-247 (4')	1/2/2025	9:50		X			X			X			X												X				
	BH-216 (4')	1/2/2025	9:55		X			X			X			X												X				
	BH-219 (4')	1/2/2025	10:00		X			X			X			X												X				
	BH-217 (4')	1/2/2025	10:05		X			X			X			X												X				
	BH-221 (4')	1/2/2025	10:10		X			X			X			X												X				
	BH-223 (4')	1/2/2025	10:15		X			X			X			X												X				
	BH-222 (4')	1/2/2025	10:20		X			X			X			X												X				
	BH-220 (4')	1/2/2025	10:25		X			X			X			X												X				

Relinquished by:	Date: 01.03.25	Time: 13:30	Received by: Date: 01.03.25 Time: 13:30
Relinquished by:	Date: 01.03.25	Time: 13:30	Received by: Date: 14.07 1/3 Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 1.6

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 69 of 72

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 933 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	BTEX 8260B	Hold
	BH-224 (4')	1/2/2025	10:30		X			X			X		X												X				
	SW-77	1/2/2025	10:35		X			X			X		X												X				
	SW-78	1/2/2025	10:40		X			X			X		X												X				
	SW-79	1/2/2025	10:45		X			X			X		X												X				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	01.03.25	13:30		01.03.25	13:30
	01.03.25	+3		11.07	1/3

LAB USE ONLY

Sample Temperature: 1.6

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 70 of 72

Received by OCD: 6/11/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7528-1
SDG Number: Eddy County, NM

Login Number: 7528
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7528-1
SDG Number: Eddy County, NM

Login Number: 7528
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 01/06/25 09:31 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 1/10/2025 8:39:22 AM

JOB DESCRIPTION

Iceman SWD

JOB NUMBER

890-7552-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

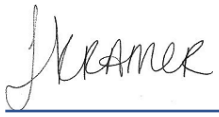
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/10/2025 8:39:22 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7552-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 10
QC Sample Results 11
QC Association Summary 15
Lab Chronicle 17
Certification Summary 19
Method Summary 20
Sample Summary 21
Chain of Custody 22
Receipt Checklists 23

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7552-1
Project/Site: Iceman SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7552-1

Job ID: 890-7552-1 Eurofins Carlsbad

Job Narrative
890-7552-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/8/2025 3:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-99928 and analytical batch 880-99757 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-99916 and analytical batch 880-99932 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-46 (890-7552-3), SW-15 (890-7552-4), SW-16 (890-7552-5) and (LCSD 880-99916/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-99916 and analytical batch 880-99932 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Job ID: 890-7552-1
Project/Site: Iceman SWD

Client Sample ID: SW-38
Lab Sample ID: 890-7552-1
Date Collected: 01/03/25 08:50
Matrix: Solid
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 12:38	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		01/09/25 10:31	01/09/25 12:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 12:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/25 10:31	01/09/25 12:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/25 10:31	01/09/25 12:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:38*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/25 12:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/25 14:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		01/09/25 10:13	01/09/25 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		01/09/25 10:13	01/09/25 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 14:34	1
Total TPH	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/09/25 10:13*	*01/09/25 14:34*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/09/25 10:13*	*01/09/25 14:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36100**		501		mg/Kg			01/09/25 14:32	50

Client Sample ID: SW-39
Lab Sample ID: 890-7552-2
Date Collected: 01/03/25 08:55
Matrix: Solid
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 12:58	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		01/09/25 10:31	01/09/25 12:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 12:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/09/25 10:31	01/09/25 12:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/09/25 10:31	01/09/25 12:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:58*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:58*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Client Sample ID: SW-39

Lab Sample ID: 890-7552-2
Matrix: Solid
Date Collected: 01/03/25 08:55
Date Received: 01/08/25 15:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/09/25 12:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 14:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		01/09/25 10:13	01/09/25 14:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		01/09/25 10:13	01/09/25 14:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 10:13	01/09/25 14:49	1
Total TPH	<49.8	U	49.8		mg/Kg		01/09/25 10:13	01/09/25 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/09/25 10:13*	*01/09/25 14:49*	*1*
o-Terphenyl	*73*		*70 - 130*	*01/09/25 10:13*	*01/09/25 14:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75000**		502		mg/Kg			01/09/25 14:37	50

Client Sample ID: SW-46

Lab Sample ID: 890-7552-3
Matrix: Solid
Date Collected: 01/03/25 09:00
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 13:19	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/09/25 10:31	01/09/25 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 13:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/25 10:31	01/09/25 13:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/25 10:31	01/09/25 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/09/25 10:31*	*01/09/25 13:19*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/09/25 10:31*	*01/09/25 13:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/25 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/25 15:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:03	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Client Sample ID: SW-46

Lab Sample ID: 890-7552-3
Matrix: Solid
Date Collected: 01/03/25 09:00
Date Received: 01/08/25 15:18

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:03	1
Total TPH	<49.9	U	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/09/25 10:13*	*01/09/25 15:03*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*01/09/25 10:13*	*01/09/25 15:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42700**		500		mg/Kg			01/09/25 14:55	50

Client Sample ID: SW-15

Lab Sample ID: 890-7552-4
Matrix: Solid
Date Collected: 01/03/25 09:05
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 13:39	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		01/09/25 10:31	01/09/25 13:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 13:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/09/25 10:31	01/09/25 13:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/09/25 10:31	01/09/25 13:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/09/25 10:31*	*01/09/25 13:39*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/09/25 10:31*	*01/09/25 13:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/09/25 13:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/25 15:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		01/09/25 10:13	01/09/25 15:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		01/09/25 10:13	01/09/25 15:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 15:18	1
Total TPH	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*01/09/25 10:13*	*01/09/25 15:18*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*01/09/25 10:13*	*01/09/25 15:18*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Client Sample ID: SW-15

Lab Sample ID: 890-7552-4
Matrix: Solid
Date Collected: 01/03/25 09:05
Date Received: 01/08/25 15:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8880		99.8		mg/Kg			01/09/25 15:00	10

Client Sample ID: SW-16

Lab Sample ID: 890-7552-5
Matrix: Solid
Date Collected: 01/03/25 09:10
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 14:00	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		01/09/25 10:31	01/09/25 14:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 14:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/25 10:31	01/09/25 14:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/25 10:31	01/09/25 14:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/09/25 10:31*	*01/09/25 14:00*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/09/25 10:31*	*01/09/25 14:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/25 14:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/25 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:33	1
Total TPH	<49.9	U	49.9		mg/Kg		01/09/25 10:13	01/09/25 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/09/25 10:13*	*01/09/25 15:33*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*01/09/25 10:13*	*01/09/25 15:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10500		201		mg/Kg			01/09/25 15:06	20

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7552-1	SW-38	97	92
890-7552-1 MS	SW-38	116	101
890-7552-1 MSD	SW-38	117	102
890-7552-2	SW-39	109	81
890-7552-3	SW-46	108	88
890-7552-4	SW-15	95	93
890-7552-5	SW-16	98	93
LCS 880-99928/1-A	Lab Control Sample	126	103
LCSD 880-99928/2-A	Lab Control Sample Dup	117	102
MB 880-99928/5-A	Method Blank	88	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7552-1	SW-38	80	76
890-7552-2	SW-39	78	73
890-7552-3	SW-46	67 S1-	65 S1-
890-7552-4	SW-15	66 S1-	64 S1-
890-7552-5	SW-16	67 S1-	65 S1-
890-7553-A-6-D MS	Matrix Spike	83	75
890-7553-A-6-E MSD	Matrix Spike Duplicate	84	75
LCS 880-99916/2-A	Lab Control Sample	87	83
LCSD 880-99916/3-A	Lab Control Sample Dup	150 S1+	133 S1+
MB 880-99916/1-A	Method Blank	150 S1+	147 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99928/5-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:16*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:16*	*1*

Lab Sample ID: LCS 880-99928/1-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1075		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1353	*+	mg/Kg		135	70 - 130
Toluene	0.100	0.1087		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2606		mg/Kg		130	70 - 130
o-Xylene	0.100	0.1271		mg/Kg		127	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-99928/2-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1028		mg/Kg		103	70 - 130	4	35
Ethylbenzene	0.100	0.1169		mg/Kg		117	70 - 130	15	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2168		mg/Kg		108	70 - 130	18	35
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7552-1 MS
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: SW-38
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0992	0.1013		mg/Kg		102	70 - 130
Ethylbenzene	<0.00199	U *+	0.0992	0.1275		mg/Kg		129	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7552-1 MS — **Client Sample ID: SW-38**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99757 — **Prep Batch: 99928**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0992	0.1029		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2475		mg/Kg		125	70 - 130
o-Xylene	<0.00199	U	0.0992	0.1202		mg/Kg		121	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-7552-1 MSD — **Client Sample ID: SW-38**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99757 — **Prep Batch: 99928**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1058		mg/Kg		105	70 - 130	4	35
Ethylbenzene	<0.00199	U *+	0.100	0.1146		mg/Kg		114	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.1083		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2573		mg/Kg		128	70 - 130	4	35
o-Xylene	<0.00199	U	0.100	0.1254		mg/Kg		125	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-99916/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99932 — **Prep Batch: 99916**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 04:50	1
Total TPH	<50.0	U	50.0		mg/Kg		01/09/25 10:13	01/09/25 04:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*01/09/25 10:13*	*01/09/25 04:50*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*01/09/25 10:13*	*01/09/25 04:50*	*1*

Lab Sample ID: LCS 880-99916/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99932 — **Prep Batch: 99916**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	861.5		mg/Kg		86	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99916/2-A
Matrix: Solid
Analysis Batch: 99932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99916

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	825.6		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: LCSD 880-99916/3-A
Matrix: Solid
Analysis Batch: 99932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99916

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1138	*1	mg/Kg		114	70 - 130	28	20
Diesel Range Organics (Over C10-C28)			1000	1317	*+ *1	mg/Kg		132	70 - 130	46	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*150*	*S1+*	*70 - 130*
o-Terphenyl	*133*	*S1+*	*70 - 130*

Lab Sample ID: 890-7553-A-6-D MS
Matrix: Solid
Analysis Batch: 99932

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	784.3		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	1000	797.0		mg/Kg		78	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 890-7553-A-6-E MSD
Matrix: Solid
Analysis Batch: 99932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	776.2		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	1000	788.6		mg/Kg		77	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99931/1-A
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/09/25 13:46	1

Lab Sample ID: LCS 880-99931/2-A
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.5		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-99931/3-A
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-53008-A-1-D MS
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	114		250	357.6		mg/Kg		98	90 - 110		

Lab Sample ID: 880-53008-A-1-E MSD
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	114		250	358.0		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

GC VOA

Analysis Batch: 99757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Total/NA	Solid	8021B	99928
890-7552-2	SW-39	Total/NA	Solid	8021B	99928
890-7552-3	SW-46	Total/NA	Solid	8021B	99928
890-7552-4	SW-15	Total/NA	Solid	8021B	99928
890-7552-5	SW-16	Total/NA	Solid	8021B	99928
MB 880-99928/5-A	Method Blank	Total/NA	Solid	8021B	99928
LCS 880-99928/1-A	Lab Control Sample	Total/NA	Solid	8021B	99928
LCSD 880-99928/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99928
890-7552-1 MS	SW-38	Total/NA	Solid	8021B	99928
890-7552-1 MSD	SW-38	Total/NA	Solid	8021B	99928

Prep Batch: 99928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Total/NA	Solid	5035	
890-7552-2	SW-39	Total/NA	Solid	5035	
890-7552-3	SW-46	Total/NA	Solid	5035	
890-7552-4	SW-15	Total/NA	Solid	5035	
890-7552-5	SW-16	Total/NA	Solid	5035	
MB 880-99928/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99928/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99928/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7552-1 MS	SW-38	Total/NA	Solid	5035	
890-7552-1 MSD	SW-38	Total/NA	Solid	5035	

Analysis Batch: 99978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Total/NA	Solid	Total BTEX	
890-7552-2	SW-39	Total/NA	Solid	Total BTEX	
890-7552-3	SW-46	Total/NA	Solid	Total BTEX	
890-7552-4	SW-15	Total/NA	Solid	Total BTEX	
890-7552-5	SW-16	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Total/NA	Solid	8015NM Prep	
890-7552-2	SW-39	Total/NA	Solid	8015NM Prep	
890-7552-3	SW-46	Total/NA	Solid	8015NM Prep	
890-7552-4	SW-15	Total/NA	Solid	8015NM Prep	
890-7552-5	SW-16	Total/NA	Solid	8015NM Prep	
MB 880-99916/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99916/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7553-A-6-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7553-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Total/NA	Solid	8015B NM	99916
890-7552-2	SW-39	Total/NA	Solid	8015B NM	99916

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

GC Semi VOA (Continued)

Analysis Batch: 99932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-3	SW-46	Total/NA	Solid	8015B NM	99916
890-7552-4	SW-15	Total/NA	Solid	8015B NM	99916
890-7552-5	SW-16	Total/NA	Solid	8015B NM	99916
MB 880-99916/1-A	Method Blank	Total/NA	Solid	8015B NM	99916
LCS 880-99916/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99916
LCSD 880-99916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99916
890-7553-A-6-D MS	Matrix Spike	Total/NA	Solid	8015B NM	99916
890-7553-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99916

Analysis Batch: 100031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Total/NA	Solid	8015 NM	
890-7552-2	SW-39	Total/NA	Solid	8015 NM	
890-7552-3	SW-46	Total/NA	Solid	8015 NM	
890-7552-4	SW-15	Total/NA	Solid	8015 NM	
890-7552-5	SW-16	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Soluble	Solid	DI Leach	
890-7552-2	SW-39	Soluble	Solid	DI Leach	
890-7552-3	SW-46	Soluble	Solid	DI Leach	
890-7552-4	SW-15	Soluble	Solid	DI Leach	
890-7552-5	SW-16	Soluble	Solid	DI Leach	
MB 880-99931/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99931/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99931/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53008-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-53008-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7552-1	SW-38	Soluble	Solid	300.0	99931
890-7552-2	SW-39	Soluble	Solid	300.0	99931
890-7552-3	SW-46	Soluble	Solid	300.0	99931
890-7552-4	SW-15	Soluble	Solid	300.0	99931
890-7552-5	SW-16	Soluble	Solid	300.0	99931
MB 880-99931/1-A	Method Blank	Soluble	Solid	300.0	99931
LCS 880-99931/2-A	Lab Control Sample	Soluble	Solid	300.0	99931
LCSD 880-99931/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99931
880-53008-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	99931
880-53008-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99931

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Client Sample ID: SW-38

Lab Sample ID: 890-7552-1
Matrix: Solid
Date Collected: 01/03/25 08:50
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99978	01/09/25 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			100031	01/09/25 14:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99916	01/09/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99932	01/09/25 14:34	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	99958	01/09/25 14:32	CH	EET MID

Client Sample ID: SW-39

Lab Sample ID: 890-7552-2
Matrix: Solid
Date Collected: 01/03/25 08:55
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99978	01/09/25 12:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			100031	01/09/25 14:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99916	01/09/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99932	01/09/25 14:49	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	99958	01/09/25 14:37	CH	EET MID

Client Sample ID: SW-46

Lab Sample ID: 890-7552-3
Matrix: Solid
Date Collected: 01/03/25 09:00
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99978	01/09/25 13:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			100031	01/09/25 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99916	01/09/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99932	01/09/25 15:03	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	99958	01/09/25 14:55	CH	EET MID

Client Sample ID: SW-15

Lab Sample ID: 890-7552-4
Matrix: Solid
Date Collected: 01/03/25 09:05
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99978	01/09/25 13:39	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Client Sample ID: SW-15

Lab Sample ID: 890-7552-4

Date Collected: 01/03/25 09:05

Matrix: Solid

Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100031	01/09/25 15:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99916	01/09/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99932	01/09/25 15:18	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99958	01/09/25 15:00	CH	EET MID

Client Sample ID: SW-16

Lab Sample ID: 890-7552-5

Date Collected: 01/03/25 09:10

Matrix: Solid

Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99978	01/09/25 14:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			100031	01/09/25 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99916	01/09/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99932	01/09/25 15:33	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	99958	01/09/25 15:06	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7552-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7552-1	SW-38	Solid	01/03/25 08:50	01/08/25 15:18
890-7552-2	SW-39	Solid	01/03/25 08:55	01/08/25 15:18
890-7552-3	SW-46	Solid	01/03/25 09:00	01/08/25 15:18
890-7552-4	SW-15	Solid	01/03/25 09:05	01/08/25 15:18
890-7552-5	SW-16	Solid	01/03/25 09:10	01/08/25 15:18

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7552 Chain of Custody

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					
	SW-38	1/3/2025	8:50		X				X					X		X												X								
	SW-39	1/3/2025	8:55		X				X					X		X												X								
	SW-46	1/3/2025	9:00		X				X					X		X												X								
	SW-15	1/3/2025	9:05		X				X					X		X												X								
	SW-16	1/3/2025	9:10		X				X					X		X												X								

Hold

Relinquished by: Date: Time:

Received by: Date: 1/8 Time: 15:15

~~Relinquished by:~~ Date: Time:

~~Received by:~~ Date: Time:

~~Relinquished by:~~ Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.8

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

~~Rush Charges Authorized~~

~~Special Report Limits or TRRP Report~~

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/11/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc Job Number: 890-7552-1

Login Number: 7552 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7552-1

Login Number: 7552
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 01/09/25 10:33 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 1/10/2025 8:43:24 AM

JOB DESCRIPTION

ICEMAN SWD

JOB NUMBER

890-7554-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

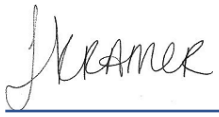
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/10/2025 8:43:24 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7554-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 10
QC Sample Results 11
QC Association Summary 15
Lab Chronicle 17
Certification Summary 19
Method Summary 20
Sample Summary 21
Chain of Custody 22
Receipt Checklists 23

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7554-1
Project/Site: ICEMAN SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7554-1

Job ID: 890-7554-1 Eurofins Carlsbad

Job Narrative
890-7554-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/8/2025 3:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-99928 and analytical batch 880-99757 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-99904 and analytical batch 880-99929 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-99904 and analytical batch 880-99929 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-40 (890-7554-3). Percent recoveries are based on the amount spiked.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99931 and analytical batch 880-99958 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Client Sample ID: SW-27

Lab Sample ID: 890-7554-1
Date Collected: 01/03/25 08:00
Matrix: Solid
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 14:20	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/09/25 10:31	01/09/25 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 14:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/25 10:31	01/09/25 14:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/25 10:31	01/09/25 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/09/25 10:31*	*01/09/25 14:20*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/09/25 10:31*	*01/09/25 14:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/25 14:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/09/25 14:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/09/25 10:11	01/09/25 14:49	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/09/25 10:11	01/09/25 14:49	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/09/25 10:11	01/09/25 14:49	1
Total TPH	<49.6	U	49.6		mg/Kg		01/09/25 10:11	01/09/25 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*01/09/25 10:11*	*01/09/25 14:49*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/09/25 10:11*	*01/09/25 14:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**295**		10.0		mg/Kg			01/09/25 15:12	1

Client Sample ID: SW-26

Lab Sample ID: 890-7554-2
Date Collected: 01/03/25 08:05
Matrix: Solid
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 14:41	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		01/09/25 10:31	01/09/25 14:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 14:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/09/25 10:31	01/09/25 14:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/09/25 10:31	01/09/25 14:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/09/25 10:31	01/09/25 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/09/25 10:31*	*01/09/25 14:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/09/25 10:31*	*01/09/25 14:41*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Client Sample ID: SW-26

Lab Sample ID: 890-7554-2
Date Collected: 01/03/25 08:05
Matrix: Solid
Date Received: 01/08/25 15:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/09/25 14:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 15:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:03	1
Total TPH	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*01/09/25 10:11*	*01/09/25 15:03*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/09/25 10:11*	*01/09/25 15:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**524**		10.1		mg/Kg			01/09/25 15:17	1

Client Sample ID: SW-40

Lab Sample ID: 890-7554-3
Date Collected: 01/03/25 08:10
Matrix: Solid
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/25 10:31	01/09/25 17:06	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		01/09/25 10:31	01/09/25 17:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/25 10:31	01/09/25 17:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/25 10:31	01/09/25 17:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/25 10:31	01/09/25 17:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/25 10:31	01/09/25 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/09/25 10:31*	*01/09/25 17:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/09/25 10:31*	*01/09/25 17:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/25 17:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 15:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:18	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Client Sample ID: SW-40

Lab Sample ID: 890-7554-3
Matrix: Solid
Date Collected: 01/03/25 08:10
Date Received: 01/08/25 15:18

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:18	1
Total TPH	<49.8	U	49.8		mg/Kg		01/09/25 10:11	01/09/25 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*01/09/25 10:11*	*01/09/25 15:18*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*01/09/25 10:11*	*01/09/25 15:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**479**	**F1**	10.0		mg/Kg			01/09/25 15:23	1

Client Sample ID: SW-18

Lab Sample ID: 890-7554-4
Matrix: Solid
Date Collected: 01/03/25 08:15
Date Received: 01/08/25 15:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 17:26	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		01/09/25 10:31	01/09/25 17:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 17:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/25 10:31	01/09/25 17:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/25 10:31	01/09/25 17:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/25 10:31	01/09/25 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/09/25 10:31*	*01/09/25 17:26*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/09/25 10:31*	*01/09/25 17:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/25 17:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**103**		50.0		mg/Kg			01/09/25 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 15:33	1
Diesel Range Organics (Over C10-C28)	**103**		50.0		mg/Kg		01/09/25 10:11	01/09/25 15:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 15:33	1
Total TPH	**103**		50.0		mg/Kg		01/09/25 10:11	01/09/25 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/09/25 10:11*	*01/09/25 15:33*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/09/25 10:11*	*01/09/25 15:33*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Client Sample ID: SW-18
Date Collected: 01/03/25 08:15
Date Received: 01/08/25 15:18

Lab Sample ID: 890-7554-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	514		9.98		mg/Kg			01/09/25 15:40	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7552-A-1-A MS	Matrix Spike	116	101
890-7552-A-1-B MSD	Matrix Spike Duplicate	117	102
890-7554-1	SW-27	95	91
890-7554-2	SW-26	97	93
890-7554-3	SW-40	93	92
890-7554-4	SW-18	93	91
LCS 880-99928/1-A	Lab Control Sample	126	103
LCSD 880-99928/2-A	Lab Control Sample Dup	117	102
MB 880-99928/5-A	Method Blank	88	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7553-A-1-H MS	Matrix Spike	80	74
890-7553-A-1-I MSD	Matrix Spike Duplicate	80	75
890-7554-1	SW-27	75	72
890-7554-2	SW-26	75	72
890-7554-3	SW-40	65 S1-	62 S1-
890-7554-4	SW-18	80	77
LCS 880-99904/2-A	Lab Control Sample	128	118
LCSD 880-99904/3-A	Lab Control Sample Dup	116	108
MB 880-99904/1-A	Method Blank	136 S1+	137 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99928/5-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/09/25 10:31	01/09/25 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 10:31	01/09/25 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:16*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/09/25 10:31*	*01/09/25 12:16*	*1*

Lab Sample ID: LCS 880-99928/1-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1075		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1353	*+	mg/Kg		135	70 - 130
Toluene	0.100	0.1087		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2606		mg/Kg		130	70 - 130
o-Xylene	0.100	0.1271		mg/Kg		127	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-99928/2-A
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1028		mg/Kg		103	70 - 130	4	35
Ethylbenzene	0.100	0.1169		mg/Kg		117	70 - 130	15	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2168		mg/Kg		108	70 - 130	18	35
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7552-A-1-A MS
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0992	0.1013		mg/Kg		102	70 - 130
Ethylbenzene	<0.00199	U *+	0.0992	0.1275		mg/Kg		129	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7552-A-1-A MS
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0992	0.1029		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2475		mg/Kg		125	70 - 130
o-Xylene	<0.00199	U	0.0992	0.1202		mg/Kg		121	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-7552-A-1-B MSD
Matrix: Solid
Analysis Batch: 99757

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1058		mg/Kg		105	70 - 130	4	35
Ethylbenzene	<0.00199	U *+	0.100	0.1146		mg/Kg		114	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.1083		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2573		mg/Kg		128	70 - 130	4	35
o-Xylene	<0.00199	U	0.100	0.1254		mg/Kg		125	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-99904/1-A
Matrix: Solid
Analysis Batch: 99929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 04:50	1
Total TPH	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 04:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*01/09/25 10:11*	*01/09/25 04:50*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*01/09/25 10:11*	*01/09/25 04:50*	*1*

Lab Sample ID: LCS 880-99904/2-A
Matrix: Solid
Analysis Batch: 99929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1024		mg/Kg		102	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99904/2-A
Matrix: Solid
Analysis Batch: 99929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99904

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1125		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: LCSD 880-99904/3-A
Matrix: Solid
Analysis Batch: 99929

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99904

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	910.4		mg/Kg		91	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	985.4		mg/Kg		99	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-7553-A-1-H MS
Matrix: Solid
Analysis Batch: 99929

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	719.7		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	754.4		mg/Kg		73	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: 890-7553-A-1-I MSD
Matrix: Solid
Analysis Batch: 99929

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	720.8		mg/Kg		72	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	768.5		mg/Kg		74	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99931/1-A
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/09/25 13:46	1

Lab Sample ID: LCS 880-99931/2-A
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.5		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-99931/3-A
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-7554-3 MS
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: SW-40
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	479	F1	250	689.9	F1	mg/Kg		84	90 - 110		

Lab Sample ID: 890-7554-3 MSD
Matrix: Solid
Analysis Batch: 99958

Client Sample ID: SW-40
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	479	F1	250	690.3	F1	mg/Kg		84	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

GC VOA

Analysis Batch: 99757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Total/NA	Solid	8021B	99928
890-7554-2	SW-26	Total/NA	Solid	8021B	99928
890-7554-3	SW-40	Total/NA	Solid	8021B	99928
890-7554-4	SW-18	Total/NA	Solid	8021B	99928
MB 880-99928/5-A	Method Blank	Total/NA	Solid	8021B	99928
LCS 880-99928/1-A	Lab Control Sample	Total/NA	Solid	8021B	99928
LCSD 880-99928/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99928
890-7552-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	99928
890-7552-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99928

Prep Batch: 99928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Total/NA	Solid	5035	
890-7554-2	SW-26	Total/NA	Solid	5035	
890-7554-3	SW-40	Total/NA	Solid	5035	
890-7554-4	SW-18	Total/NA	Solid	5035	
MB 880-99928/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99928/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99928/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7552-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7552-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Total/NA	Solid	Total BTEX	
890-7554-2	SW-26	Total/NA	Solid	Total BTEX	
890-7554-3	SW-40	Total/NA	Solid	Total BTEX	
890-7554-4	SW-18	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Total/NA	Solid	8015NM Prep	
890-7554-2	SW-26	Total/NA	Solid	8015NM Prep	
890-7554-3	SW-40	Total/NA	Solid	8015NM Prep	
890-7554-4	SW-18	Total/NA	Solid	8015NM Prep	
MB 880-99904/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99904/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99904/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7553-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7553-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Total/NA	Solid	8015B NM	99904
890-7554-2	SW-26	Total/NA	Solid	8015B NM	99904
890-7554-3	SW-40	Total/NA	Solid	8015B NM	99904
890-7554-4	SW-18	Total/NA	Solid	8015B NM	99904
MB 880-99904/1-A	Method Blank	Total/NA	Solid	8015B NM	99904
LCS 880-99904/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99904

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

GC Semi VOA (Continued)

Analysis Batch: 99929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-99904/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99904
890-7553-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	99904
890-7553-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99904

Analysis Batch: 100029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Total/NA	Solid	8015 NM	
890-7554-2	SW-26	Total/NA	Solid	8015 NM	
890-7554-3	SW-40	Total/NA	Solid	8015 NM	
890-7554-4	SW-18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Soluble	Solid	DI Leach	
890-7554-2	SW-26	Soluble	Solid	DI Leach	
890-7554-3	SW-40	Soluble	Solid	DI Leach	
890-7554-4	SW-18	Soluble	Solid	DI Leach	
MB 880-99931/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99931/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99931/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7554-3 MS	SW-40	Soluble	Solid	DI Leach	
890-7554-3 MSD	SW-40	Soluble	Solid	DI Leach	

Analysis Batch: 99958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7554-1	SW-27	Soluble	Solid	300.0	99931
890-7554-2	SW-26	Soluble	Solid	300.0	99931
890-7554-3	SW-40	Soluble	Solid	300.0	99931
890-7554-4	SW-18	Soluble	Solid	300.0	99931
MB 880-99931/1-A	Method Blank	Soluble	Solid	300.0	99931
LCS 880-99931/2-A	Lab Control Sample	Soluble	Solid	300.0	99931
LCSD 880-99931/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99931
890-7554-3 MS	SW-40	Soluble	Solid	300.0	99931
890-7554-3 MSD	SW-40	Soluble	Solid	300.0	99931

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Client Sample ID: SW-27

Lab Sample ID: 890-7554-1
Matrix: Solid
Date Collected: 01/03/25 08:00
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 14:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99979	01/09/25 14:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			100029	01/09/25 14:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	99904	01/09/25 10:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99929	01/09/25 14:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99958	01/09/25 15:12	CH	EET MID

Client Sample ID: SW-26

Lab Sample ID: 890-7554-2
Matrix: Solid
Date Collected: 01/03/25 08:05
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99979	01/09/25 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			100029	01/09/25 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99904	01/09/25 10:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99929	01/09/25 15:03	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99958	01/09/25 15:17	CH	EET MID

Client Sample ID: SW-40

Lab Sample ID: 890-7554-3
Matrix: Solid
Date Collected: 01/03/25 08:10
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 17:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99979	01/09/25 17:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			100029	01/09/25 15:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99904	01/09/25 10:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99929	01/09/25 15:18	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99958	01/09/25 15:23	CH	EET MID

Client Sample ID: SW-18

Lab Sample ID: 890-7554-4
Matrix: Solid
Date Collected: 01/03/25 08:15
Date Received: 01/08/25 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99928	01/09/25 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99757	01/09/25 17:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99979	01/09/25 17:26	SM	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Client Sample ID: SW-18

Date Collected: 01/03/25 08:15
Date Received: 01/08/25 15:18

Lab Sample ID: 890-7554-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100029	01/09/25 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99904	01/09/25 10:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99929	01/09/25 15:33	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99931	01/09/25 10:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99958	01/09/25 15:40	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7554-1	SW-27	Solid	01/03/25 08:00	01/08/25 15:18
890-7554-2	SW-26	Solid	01/03/25 08:05	01/08/25 15:18
890-7554-3	SW-40	Solid	01/03/25 08:10	01/08/25 15:18
890-7554-4	SW-18	Solid	01/03/25 08:15	01/08/25 15:18

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7554 Chain of Custody

1/10/2025

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2025)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				
	SW-27	1/3/2025	8:00		X			X			X		X												X						
	SW-26	1/3/2025	8:05		X			X			X		X												X						
	SW-40	1/3/1900	8:10		X			X			X		X												X						
	SW-18	1/3/2025	8:15		X			X			X		X												X						

Page 22 of 24 Held

Relinquished by:	Date:	Time:	Received by: Date: Time: 15.18 1/8
~~Relinquished by:~~	~~Date:~~	~~Time:~~	~~Received by:~~ Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.6

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7554-1

Login Number: 7554

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7554-1

Login Number: 7554
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 01/09/25 10:34 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/3/2025 3:14:15 PM

JOB DESCRIPTION

Iceman SWD

JOB NUMBER

890-7620-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

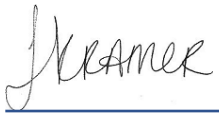
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/3/2025 3:14:15 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7620-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 18
QC Sample Results 20
QC Association Summary 26
Lab Chronicle 30
Certification Summary 35
Method Summary 36
Sample Summary 37
Chain of Custody 38
Receipt Checklists 40

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7620-1
Project/Site: Iceman SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7620-1

Job ID: 890-7620-1 Eurofins Carlsbad

Job Narrative
890-7620-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/31/2025 4:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-113 (4) (890-7620-1), BH-120 (4) (890-7620-2), BH-95 (4) (890-7620-3), BH-94 (4) (890-7620-4), BH-87 (4) (890-7620-5), BH-127 (3) (890-7620-6), SW-36 (890-7620-7), SW-37 (890-7620-8), SW-34 (890-7620-9), SW-88 (890-7620-10), SW-89 (890-7620-11), SW-86 (890-7620-12), SW-87 (890-7620-13), SW-90 (890-7620-14) and SW-91 (890-7620-15).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-101835 and analytical batch 880-101852 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-101835/2-A) and (LCSD 880-101835/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-113 (4) (890-7620-1), BH-120 (4) (890-7620-2), BH-95 (4) (890-7620-3), BH-87 (4) (890-7620-5), BH-127 (3) (890-7620-6), SW-37 (890-7620-8) and (890-7620-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-94 (4) (890-7620-4), SW-36 (890-7620-7) and (890-7620-A-1-D MS). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-101835 and analytical batch 880-101852 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: BH-113 (4)

Lab Sample ID: 890-7620-1
Matrix: Solid
Date Collected: 01/31/25 08:00
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 15:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 15:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 15:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 15:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 15:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/31/25 17:00*	*02/02/25 15:05*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/31/25 17:00*	*02/02/25 15:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/02/25 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/03/25 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 11:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/03/25 08:03	02/03/25 11:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 11:30	1
Total TPH	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*02/03/25 08:03*	*02/03/25 11:30*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 11:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.1**		9.90		mg/Kg			02/03/25 10:18	1

Client Sample ID: BH-120 (4)

Lab Sample ID: 890-7620-2
Matrix: Solid
Date Collected: 01/31/25 08:05
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 15:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 15:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 15:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 15:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 15:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/31/25 17:00*	*02/02/25 15:25*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/31/25 17:00*	*02/02/25 15:25*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: BH-120 (4)

Lab Sample ID: 890-7620-2

Date Collected: 01/31/25 08:05
Matrix: Solid
Date Received: 01/31/25 16:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/25 15:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/03/25 12:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/03/25 08:03	02/03/25 12:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		02/03/25 08:03	02/03/25 12:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/03/25 08:03	02/03/25 12:18	1
Total TPH	<50.0	U	50.0		mg/Kg		02/03/25 08:03	02/03/25 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/03/25 08:03*	*02/03/25 12:18*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 12:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.3**		9.98		mg/Kg			02/03/25 10:24	1

Client Sample ID: BH-95 (4)

Lab Sample ID: 890-7620-3

Date Collected: 01/31/25 08:10
Matrix: Solid
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/31/25 17:00	02/02/25 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/31/25 17:00	02/02/25 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/31/25 17:00*	*02/02/25 15:46*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/31/25 17:00*	*02/02/25 15:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/02/25 15:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/03/25 12:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 12:35	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: BH-95 (4)

Lab Sample ID: 890-7620-3
Matrix: Solid
Date Collected: 01/31/25 08:10
Date Received: 01/31/25 16:03

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/03/25 08:03	02/03/25 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 12:35	1
Total TPH	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/03/25 08:03*	*02/03/25 12:35*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 12:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.1**		9.96		mg/Kg			02/03/25 10:30	1

Client Sample ID: BH-94 (4)

Lab Sample ID: 890-7620-4
Matrix: Solid
Date Collected: 01/31/25 08:15
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 16:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 16:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 16:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 16:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 16:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/31/25 17:00*	*02/02/25 16:07*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/31/25 17:00*	*02/02/25 16:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/02/25 16:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/03/25 12:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/03/25 08:03	02/03/25 12:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U *- *1	49.7		mg/Kg		02/03/25 08:03	02/03/25 12:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/03/25 08:03	02/03/25 12:51	1
Total TPH	<49.7	U	49.7		mg/Kg		02/03/25 08:03	02/03/25 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 12:51*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 12:51*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: BH-94 (4)

Lab Sample ID: 890-7620-4
Matrix: Solid
Date Collected: 01/31/25 08:15
Date Received: 01/31/25 16:03

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.7		9.96		mg/Kg			02/03/25 10:36	1

Client Sample ID: BH-87 (4)

Lab Sample ID: 890-7620-5
Matrix: Solid
Date Collected: 01/31/25 08:20
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 16:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 16:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 16:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/31/25 17:00	02/02/25 16:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/31/25 17:00	02/02/25 16:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/31/25 17:00*	*02/02/25 16:27*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/31/25 17:00*	*02/02/25 16:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/02/25 16:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/03/25 13:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:07	1
Total TPH	<49.8	U	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/03/25 08:03*	*02/03/25 13:07*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 13:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		10.0		mg/Kg			02/03/25 10:54	1

Client Sample ID: BH-127 (3)

Lab Sample ID: 890-7620-6
Matrix: Solid
Date Collected: 01/31/25 08:25
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 16:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 16:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: BH-127 (3)

Lab Sample ID: 890-7620-6
Matrix: Solid
Date Collected: 01/31/25 08:25
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 16:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 16:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 16:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/31/25 17:00*	*02/02/25 16:48*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/31/25 17:00*	*02/02/25 16:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/25 16:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/03/25 13:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 13:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/03/25 08:03	02/03/25 13:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 13:23	1
Total TPH	<49.9	U	49.9		mg/Kg		02/03/25 08:03	02/03/25 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/03/25 08:03*	*02/03/25 13:23*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 13:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**435**		10.1		mg/Kg			02/03/25 11:00	1

Client Sample ID: SW-36

Lab Sample ID: 890-7620-7
Matrix: Solid
Date Collected: 01/31/25 08:30
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 17:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/31/25 17:00	02/02/25 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/31/25 17:00	02/02/25 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/31/25 17:00*	*02/02/25 17:08*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/31/25 17:00*	*02/02/25 17:08*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-36

Lab Sample ID: 890-7620-7
Matrix: Solid
Date Collected: 01/31/25 08:30
Date Received: 01/31/25 16:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/02/25 17:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/03/25 13:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:39	1
Total TPH	<49.8	U	49.8		mg/Kg		02/03/25 08:03	02/03/25 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 13:39*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**228**		9.94		mg/Kg			02/03/25 11:06	1

Client Sample ID: SW-37

Lab Sample ID: 890-7620-8
Matrix: Solid
Date Collected: 01/31/25 08:35
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 17:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 17:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 17:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 17:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 17:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/31/25 17:00*	*02/02/25 17:29*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/31/25 17:00*	*02/02/25 17:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/02/25 17:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/03/25 13:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/03/25 08:03	02/03/25 13:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-37

Lab Sample ID: 890-7620-8
Matrix: Solid
Date Collected: 01/31/25 08:35
Date Received: 01/31/25 16:03

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U *- *1	49.7		mg/Kg		02/03/25 08:03	02/03/25 13:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/03/25 08:03	02/03/25 13:55	1
Total TPH	<49.7	U	49.7		mg/Kg		02/03/25 08:03	02/03/25 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*02/03/25 08:03*	*02/03/25 13:55*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/03/25 08:03*	*02/03/25 13:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		9.96		mg/Kg			02/03/25 11:11	1

Client Sample ID: SW-34

Lab Sample ID: 890-7620-9
Matrix: Solid
Date Collected: 01/31/25 08:40
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 19:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 19:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 19:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 19:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/31/25 17:00	02/02/25 19:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/31/25 17:00	02/02/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/31/25 17:00*	*02/02/25 19:03*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/31/25 17:00*	*02/02/25 19:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/02/25 19:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/03/25 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 11:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 11:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 11:30	1
Total TPH	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/03/25 08:05*	*02/03/25 11:30*	*1*
o-Terphenyl	*90*		*70 - 130*	*02/03/25 08:05*	*02/03/25 11:30*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-34

Lab Sample ID: 890-7620-9
Matrix: Solid
Date Collected: 01/31/25 08:40
Date Received: 01/31/25 16:03

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.7		9.98		mg/Kg			02/03/25 11:17	1

Client Sample ID: SW-88

Lab Sample ID: 890-7620-10
Matrix: Solid
Date Collected: 01/31/25 08:45
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 19:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 19:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/31/25 17:00*	*02/02/25 19:23*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/31/25 17:00*	*02/02/25 19:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/25 19:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/03/25 12:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:18	1
Total TPH	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*02/03/25 08:05*	*02/03/25 12:18*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/03/25 08:05*	*02/03/25 12:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.6		10.1		mg/Kg			02/03/25 11:23	1

Client Sample ID: SW-89

Lab Sample ID: 890-7620-11
Matrix: Solid
Date Collected: 01/31/25 08:50
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:44	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-89

Lab Sample ID: 890-7620-11
Date Collected: 01/31/25 08:50
Matrix: Solid
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 19:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 19:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/31/25 17:00*	*02/02/25 19:44*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/31/25 17:00*	*02/02/25 19:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/25 19:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/03/25 12:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 12:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 12:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 12:35	1
Total TPH	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/03/25 08:05*	*02/03/25 12:35*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/03/25 08:05*	*02/03/25 12:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.3**		10.0		mg/Kg			02/03/25 11:41	1

Client Sample ID: SW-86

Lab Sample ID: 890-7620-12
Date Collected: 01/31/25 08:55
Matrix: Solid
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/31/25 17:00	02/02/25 20:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/31/25 17:00	02/02/25 20:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/31/25 17:00*	*02/02/25 20:04*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/31/25 17:00*	*02/02/25 20:04*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-86

Lab Sample ID: 890-7620-12
Matrix: Solid
Date Collected: 01/31/25 08:55
Date Received: 01/31/25 16:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/02/25 20:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/03/25 12:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:51	1
Total TPH	<49.9	U	49.9		mg/Kg		02/03/25 08:05	02/03/25 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*02/03/25 08:05*	*02/03/25 12:51*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/03/25 08:05*	*02/03/25 12:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.1**		10.1		mg/Kg			02/03/25 11:47	1

Client Sample ID: SW-87

Lab Sample ID: 890-7620-13
Matrix: Solid
Date Collected: 01/31/25 09:00
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/31/25 17:00	02/02/25 20:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/31/25 17:00	02/02/25 20:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/31/25 17:00*	*02/02/25 20:25*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/31/25 17:00*	*02/02/25 20:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/02/25 20:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/03/25 13:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/03/25 08:05	02/03/25 13:07	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-87

Lab Sample ID: 890-7620-13
Matrix: Solid
Date Collected: 01/31/25 09:00
Date Received: 01/31/25 16:03

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/03/25 08:05	02/03/25 13:07	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/03/25 08:05	02/03/25 13:07	1
Total TPH	<49.7	U	49.7		mg/Kg		02/03/25 08:05	02/03/25 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*02/03/25 08:05*	*02/03/25 13:07*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/03/25 08:05*	*02/03/25 13:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		10.1		mg/Kg			02/03/25 12:05	1

Client Sample ID: SW-90

Lab Sample ID: 890-7620-14
Matrix: Solid
Date Collected: 01/31/25 09:05
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 20:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 20:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 20:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 20:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/31/25 17:00	02/02/25 20:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/31/25 17:00	02/02/25 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/31/25 17:00*	*02/02/25 20:45*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/31/25 17:00*	*02/02/25 20:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/25 20:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/03/25 13:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:23	1
Total TPH	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*02/03/25 08:05*	*02/03/25 13:23*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/03/25 08:05*	*02/03/25 13:23*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-90

Lab Sample ID: 890-7620-14
Matrix: Solid
Date Collected: 01/31/25 09:05
Date Received: 01/31/25 16:03

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	327		10.0		mg/Kg			02/03/25 12:11	1

Client Sample ID: SW-91

Lab Sample ID: 890-7620-15
Matrix: Solid
Date Collected: 01/31/25 09:10
Date Received: 01/31/25 16:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 21:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 21:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 21:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/31/25 17:00	02/02/25 21:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/31/25 17:00	02/02/25 21:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/31/25 17:00	02/02/25 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/31/25 17:00*	*02/02/25 21:06*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/31/25 17:00*	*02/02/25 21:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/02/25 21:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/03/25 13:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:39	1
Total TPH	<49.8	U	49.8		mg/Kg		02/03/25 08:05	02/03/25 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*02/03/25 08:05*	*02/03/25 13:39*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/03/25 08:05*	*02/03/25 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	356		10.0		mg/Kg			02/03/25 12:17	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7619-A-21-D MS	Matrix Spike	95	123
890-7619-A-21-E MSD	Matrix Spike Duplicate	94	123
890-7620-1	BH-113 (4)	98	109
890-7620-2	BH-120 (4)	100	102
890-7620-3	BH-95 (4)	103	97
890-7620-4	BH-94 (4)	102	109
890-7620-5	BH-87 (4)	93	110
890-7620-6	BH-127 (3)	98	107
890-7620-7	SW-36	101	105
890-7620-8	SW-37	101	111
890-7620-9	SW-34	100	109
890-7620-10	SW-88	95	103
890-7620-11	SW-89	100	105
890-7620-12	SW-86	98	107
890-7620-13	SW-87	101	108
890-7620-14	SW-90	95	109
890-7620-15	SW-91	100	108
LCS 880-101803/1-A	Lab Control Sample	96	127
LCSD 880-101803/2-A	Lab Control Sample Dup	96	124
MB 880-101803/5-A	Method Blank	97	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7620-1	BH-113 (4)	76	68 S1-
890-7620-1 MS	BH-113 (4)	65 S1-	65 S1-
890-7620-1 MSD	BH-113 (4)	78	65 S1-
890-7620-2	BH-120 (4)	73	66 S1-
890-7620-3	BH-95 (4)	73	66 S1-
890-7620-4	BH-94 (4)	65 S1-	59 S1-
890-7620-5	BH-87 (4)	74	66 S1-
890-7620-6	BH-127 (3)	75	68 S1-
890-7620-7	SW-36	69 S1-	60 S1-
890-7620-8	SW-37	76	68 S1-
890-7620-9	SW-34	115	90
890-7620-9 MS	SW-34	113	101
890-7620-9 MSD	SW-34	115	101
890-7620-10	SW-88	104	79
890-7620-11	SW-89	105	81
890-7620-12	SW-86	111	87
890-7620-13	SW-87	111	86
890-7620-14	SW-90	113	89
890-7620-15	SW-91	120	95

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7620-1
Project/Site: Iceman SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCS 880-101835/2-A	Lab Control Sample	67 S1-	70								
LCS 880-101836/2-A	Lab Control Sample	105	109								
LCSD 880-101835/3-A	Lab Control Sample Dup	68 S1-	70								
LCSD 880-101836/3-A	Lab Control Sample Dup	99	89								
MB 880-101835/1-A	Method Blank	78	73								
MB 880-101836/1-A	Method Blank	107	92								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101803/5-A
Matrix: Solid
Analysis Batch: 101824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/31/25 16:41	02/02/25 14:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/31/25 16:41	02/02/25 14:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/31/25 16:41	02/02/25 14:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/31/25 16:41	02/02/25 14:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/31/25 16:41	02/02/25 14:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/31/25 16:41	02/02/25 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/31/25 16:41*	*02/02/25 14:02*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/31/25 16:41*	*02/02/25 14:02*	*1*

Lab Sample ID: LCS 880-101803/1-A
Matrix: Solid
Analysis Batch: 101824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1054		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.1032		mg/Kg		103	70 - 130		
Toluene			0.100	0.09300		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.2156		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1045		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*

Lab Sample ID: LCSD 880-101803/2-A
Matrix: Solid
Analysis Batch: 101824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101803

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1014		mg/Kg		101	70 - 130	4	35
Ethylbenzene			0.100	0.09835		mg/Kg		98	70 - 130	5	35
Toluene			0.100	0.08898		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2060		mg/Kg		103	70 - 130	5	35
o-Xylene			0.100	0.1000		mg/Kg		100	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*

Lab Sample ID: 890-7619-A-21-D MS
Matrix: Solid
Analysis Batch: 101824

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 101803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.09867		mg/Kg		99	70 - 130		
Ethylbenzene	<0.00202	U	0.100	0.09559		mg/Kg		96	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7619-A-21-D MS
Matrix: Solid
Analysis Batch: 101824

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 101803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00202	U	0.100	0.08689		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	<0.00202	U	0.100	0.09699		mg/Kg		97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*

Lab Sample ID: 890-7619-A-21-E MSD
Matrix: Solid
Analysis Batch: 101824

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 101803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09664		mg/Kg		97	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.100	0.09242		mg/Kg		92	70 - 130	3	35
Toluene	<0.00202	U	0.100	0.08467		mg/Kg		85	70 - 130	3	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1935		mg/Kg		97	70 - 130	3	35
o-Xylene	<0.00202	U	0.100	0.09391		mg/Kg		94	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-101835/1-A
Matrix: Solid
Analysis Batch: 101852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/03/25 08:03	02/03/25 09:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/03/25 08:03	02/03/25 09:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/03/25 08:03	02/03/25 09:26	1
Total TPH	<50.0	U	50.0		mg/Kg		02/03/25 08:03	02/03/25 09:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*02/03/25 08:03*	*02/03/25 09:26*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/03/25 08:03*	*02/03/25 09:26*	*1*

Lab Sample ID: LCS 880-101835/2-A
Matrix: Solid
Analysis Batch: 101852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	700.0		mg/Kg		70	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-101835/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101852 — **Prep Batch: 101835**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	677.3	*-	mg/Kg		68	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*67*	*S1-*	*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Lab Sample ID: LCSD 880-101835/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101852 — **Prep Batch: 101835**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.0		mg/Kg		83	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	835.2	*1	mg/Kg		84	70 - 130	21	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*68*	*S1-*	*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Lab Sample ID: 890-7620-1 MS — **Client Sample ID: BH-113 (4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101852 — **Prep Batch: 101835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	717.3		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	998	729.7		mg/Kg		73	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*65*	*S1-*	*70 - 130*
o-Terphenyl	*65*	*S1-*	*70 - 130*

Lab Sample ID: 890-7620-1 MSD — **Client Sample ID: BH-113 (4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101852 — **Prep Batch: 101835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	720.1		mg/Kg		72	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	998	720.0		mg/Kg		72	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*65*	*S1-*	*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-101836/1-A
Matrix: Solid
Analysis Batch: 101854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/03/25 08:05	02/03/25 09:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/03/25 08:05	02/03/25 09:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/03/25 08:05	02/03/25 09:26	1
Total TPH	<50.0	U	50.0		mg/Kg		02/03/25 08:05	02/03/25 09:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*02/03/25 08:05*	*02/03/25 09:26*	*1*
o-Terphenyl	*92*		*70 - 130*	*02/03/25 08:05*	*02/03/25 09:26*	*1*

Lab Sample ID: LCS 880-101836/2-A
Matrix: Solid
Analysis Batch: 101854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101836

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1050		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-101836/3-A
Matrix: Solid
Analysis Batch: 101854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101836

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	992.0		mg/Kg		99	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	925.3		mg/Kg		93	70 - 130	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: 890-7620-9 MS
Matrix: Solid
Analysis Batch: 101854

Client Sample ID: SW-34
Prep Type: Total/NA
Prep Batch: 101836

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1000		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	1017		mg/Kg		102	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7620-9 MS
Matrix: Solid
Analysis Batch: 101854

Client Sample ID: SW-34
Prep Type: Total/NA
Prep Batch: 101836

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-7620-9 MSD
Matrix: Solid
Analysis Batch: 101854

Client Sample ID: SW-34
Prep Type: Total/NA
Prep Batch: 101836

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1022		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	1039		mg/Kg		104	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	101		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101822/1-A
Matrix: Solid
Analysis Batch: 101847

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/03/25 09:43	1

Lab Sample ID: LCS 880-101822/2-A
Matrix: Solid
Analysis Batch: 101847

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.2		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-101822/3-A
Matrix: Solid
Analysis Batch: 101847

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.0		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-7620-10 MS
Matrix: Solid
Analysis Batch: 101847

Client Sample ID: SW-88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	28.6		252	273.9		mg/Kg		97	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7620-10 MSD
Matrix: Solid
Analysis Batch: 101847

Client Sample ID: SW-88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.6		252	274.1		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

GC VOA

Prep Batch: 101803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Total/NA	Solid	5035	
890-7620-2	BH-120 (4)	Total/NA	Solid	5035	
890-7620-3	BH-95 (4)	Total/NA	Solid	5035	
890-7620-4	BH-94 (4)	Total/NA	Solid	5035	
890-7620-5	BH-87 (4)	Total/NA	Solid	5035	
890-7620-6	BH-127 (3)	Total/NA	Solid	5035	
890-7620-7	SW-36	Total/NA	Solid	5035	
890-7620-8	SW-37	Total/NA	Solid	5035	
890-7620-9	SW-34	Total/NA	Solid	5035	
890-7620-10	SW-88	Total/NA	Solid	5035	
890-7620-11	SW-89	Total/NA	Solid	5035	
890-7620-12	SW-86	Total/NA	Solid	5035	
890-7620-13	SW-87	Total/NA	Solid	5035	
890-7620-14	SW-90	Total/NA	Solid	5035	
890-7620-15	SW-91	Total/NA	Solid	5035	
MB 880-101803/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101803/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101803/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7619-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7619-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 101824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Total/NA	Solid	8021B	101803
890-7620-2	BH-120 (4)	Total/NA	Solid	8021B	101803
890-7620-3	BH-95 (4)	Total/NA	Solid	8021B	101803
890-7620-4	BH-94 (4)	Total/NA	Solid	8021B	101803
890-7620-5	BH-87 (4)	Total/NA	Solid	8021B	101803
890-7620-6	BH-127 (3)	Total/NA	Solid	8021B	101803
890-7620-7	SW-36	Total/NA	Solid	8021B	101803
890-7620-8	SW-37	Total/NA	Solid	8021B	101803
890-7620-9	SW-34	Total/NA	Solid	8021B	101803
890-7620-10	SW-88	Total/NA	Solid	8021B	101803
890-7620-11	SW-89	Total/NA	Solid	8021B	101803
890-7620-12	SW-86	Total/NA	Solid	8021B	101803
890-7620-13	SW-87	Total/NA	Solid	8021B	101803
890-7620-14	SW-90	Total/NA	Solid	8021B	101803
890-7620-15	SW-91	Total/NA	Solid	8021B	101803
MB 880-101803/5-A	Method Blank	Total/NA	Solid	8021B	101803
LCS 880-101803/1-A	Lab Control Sample	Total/NA	Solid	8021B	101803
LCSD 880-101803/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101803
890-7619-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	101803
890-7619-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	101803

Analysis Batch: 101882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Total/NA	Solid	Total BTEX	
890-7620-2	BH-120 (4)	Total/NA	Solid	Total BTEX	
890-7620-3	BH-95 (4)	Total/NA	Solid	Total BTEX	
890-7620-4	BH-94 (4)	Total/NA	Solid	Total BTEX	
890-7620-5	BH-87 (4)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

GC VOA (Continued)

Analysis Batch: 101882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-6	BH-127 (3)	Total/NA	Solid	Total BTEX	
890-7620-7	SW-36	Total/NA	Solid	Total BTEX	
890-7620-8	SW-37	Total/NA	Solid	Total BTEX	
890-7620-9	SW-34	Total/NA	Solid	Total BTEX	
890-7620-10	SW-88	Total/NA	Solid	Total BTEX	
890-7620-11	SW-89	Total/NA	Solid	Total BTEX	
890-7620-12	SW-86	Total/NA	Solid	Total BTEX	
890-7620-13	SW-87	Total/NA	Solid	Total BTEX	
890-7620-14	SW-90	Total/NA	Solid	Total BTEX	
890-7620-15	SW-91	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Total/NA	Solid	8015NM Prep	
890-7620-2	BH-120 (4)	Total/NA	Solid	8015NM Prep	
890-7620-3	BH-95 (4)	Total/NA	Solid	8015NM Prep	
890-7620-4	BH-94 (4)	Total/NA	Solid	8015NM Prep	
890-7620-5	BH-87 (4)	Total/NA	Solid	8015NM Prep	
890-7620-6	BH-127 (3)	Total/NA	Solid	8015NM Prep	
890-7620-7	SW-36	Total/NA	Solid	8015NM Prep	
890-7620-8	SW-37	Total/NA	Solid	8015NM Prep	
MB 880-101835/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101835/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101835/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7620-1 MS	BH-113 (4)	Total/NA	Solid	8015NM Prep	
890-7620-1 MSD	BH-113 (4)	Total/NA	Solid	8015NM Prep	

Prep Batch: 101836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-9	SW-34	Total/NA	Solid	8015NM Prep	
890-7620-10	SW-88	Total/NA	Solid	8015NM Prep	
890-7620-11	SW-89	Total/NA	Solid	8015NM Prep	
890-7620-12	SW-86	Total/NA	Solid	8015NM Prep	
890-7620-13	SW-87	Total/NA	Solid	8015NM Prep	
890-7620-14	SW-90	Total/NA	Solid	8015NM Prep	
890-7620-15	SW-91	Total/NA	Solid	8015NM Prep	
MB 880-101836/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101836/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101836/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7620-9 MS	SW-34	Total/NA	Solid	8015NM Prep	
890-7620-9 MSD	SW-34	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Total/NA	Solid	8015B NM	101835
890-7620-2	BH-120 (4)	Total/NA	Solid	8015B NM	101835
890-7620-3	BH-95 (4)	Total/NA	Solid	8015B NM	101835
890-7620-4	BH-94 (4)	Total/NA	Solid	8015B NM	101835
890-7620-5	BH-87 (4)	Total/NA	Solid	8015B NM	101835

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

GC Semi VOA (Continued)

Analysis Batch: 101852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-6	BH-127 (3)	Total/NA	Solid	8015B NM	101835
890-7620-7	SW-36	Total/NA	Solid	8015B NM	101835
890-7620-8	SW-37	Total/NA	Solid	8015B NM	101835
MB 880-101835/1-A	Method Blank	Total/NA	Solid	8015B NM	101835
LCS 880-101835/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101835
LCSD 880-101835/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101835
890-7620-1 MS	BH-113 (4)	Total/NA	Solid	8015B NM	101835
890-7620-1 MSD	BH-113 (4)	Total/NA	Solid	8015B NM	101835

Analysis Batch: 101854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-9	SW-34	Total/NA	Solid	8015B NM	101836
890-7620-10	SW-88	Total/NA	Solid	8015B NM	101836
890-7620-11	SW-89	Total/NA	Solid	8015B NM	101836
890-7620-12	SW-86	Total/NA	Solid	8015B NM	101836
890-7620-13	SW-87	Total/NA	Solid	8015B NM	101836
890-7620-14	SW-90	Total/NA	Solid	8015B NM	101836
890-7620-15	SW-91	Total/NA	Solid	8015B NM	101836
MB 880-101836/1-A	Method Blank	Total/NA	Solid	8015B NM	101836
LCS 880-101836/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101836
LCSD 880-101836/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101836
890-7620-9 MS	SW-34	Total/NA	Solid	8015B NM	101836
890-7620-9 MSD	SW-34	Total/NA	Solid	8015B NM	101836

Analysis Batch: 101912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Total/NA	Solid	8015 NM	
890-7620-2	BH-120 (4)	Total/NA	Solid	8015 NM	
890-7620-3	BH-95 (4)	Total/NA	Solid	8015 NM	
890-7620-4	BH-94 (4)	Total/NA	Solid	8015 NM	
890-7620-5	BH-87 (4)	Total/NA	Solid	8015 NM	
890-7620-6	BH-127 (3)	Total/NA	Solid	8015 NM	
890-7620-7	SW-36	Total/NA	Solid	8015 NM	
890-7620-8	SW-37	Total/NA	Solid	8015 NM	
890-7620-9	SW-34	Total/NA	Solid	8015 NM	
890-7620-10	SW-88	Total/NA	Solid	8015 NM	
890-7620-11	SW-89	Total/NA	Solid	8015 NM	
890-7620-12	SW-86	Total/NA	Solid	8015 NM	
890-7620-13	SW-87	Total/NA	Solid	8015 NM	
890-7620-14	SW-90	Total/NA	Solid	8015 NM	
890-7620-15	SW-91	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 101822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Soluble	Solid	DI Leach	
890-7620-2	BH-120 (4)	Soluble	Solid	DI Leach	
890-7620-3	BH-95 (4)	Soluble	Solid	DI Leach	
890-7620-4	BH-94 (4)	Soluble	Solid	DI Leach	
890-7620-5	BH-87 (4)	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

HPLC/IC (Continued)

Leach Batch: 101822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-6	BH-127 (3)	Soluble	Solid	DI Leach	
890-7620-7	SW-36	Soluble	Solid	DI Leach	
890-7620-8	SW-37	Soluble	Solid	DI Leach	
890-7620-9	SW-34	Soluble	Solid	DI Leach	
890-7620-10	SW-88	Soluble	Solid	DI Leach	
890-7620-11	SW-89	Soluble	Solid	DI Leach	
890-7620-12	SW-86	Soluble	Solid	DI Leach	
890-7620-13	SW-87	Soluble	Solid	DI Leach	
890-7620-14	SW-90	Soluble	Solid	DI Leach	
890-7620-15	SW-91	Soluble	Solid	DI Leach	
MB 880-101822/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101822/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101822/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7620-10 MS	SW-88	Soluble	Solid	DI Leach	
890-7620-10 MSD	SW-88	Soluble	Solid	DI Leach	

Analysis Batch: 101847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7620-1	BH-113 (4)	Soluble	Solid	300.0	101822
890-7620-2	BH-120 (4)	Soluble	Solid	300.0	101822
890-7620-3	BH-95 (4)	Soluble	Solid	300.0	101822
890-7620-4	BH-94 (4)	Soluble	Solid	300.0	101822
890-7620-5	BH-87 (4)	Soluble	Solid	300.0	101822
890-7620-6	BH-127 (3)	Soluble	Solid	300.0	101822
890-7620-7	SW-36	Soluble	Solid	300.0	101822
890-7620-8	SW-37	Soluble	Solid	300.0	101822
890-7620-9	SW-34	Soluble	Solid	300.0	101822
890-7620-10	SW-88	Soluble	Solid	300.0	101822
890-7620-11	SW-89	Soluble	Solid	300.0	101822
890-7620-12	SW-86	Soluble	Solid	300.0	101822
890-7620-13	SW-87	Soluble	Solid	300.0	101822
890-7620-14	SW-90	Soluble	Solid	300.0	101822
890-7620-15	SW-91	Soluble	Solid	300.0	101822
MB 880-101822/1-A	Method Blank	Soluble	Solid	300.0	101822
LCS 880-101822/2-A	Lab Control Sample	Soluble	Solid	300.0	101822
LCSD 880-101822/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101822
890-7620-10 MS	SW-88	Soluble	Solid	300.0	101822
890-7620-10 MSD	SW-88	Soluble	Solid	300.0	101822

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7620-1
Project/Site: Iceman SWD

Client Sample ID: BH-113 (4)
Lab Sample ID: 890-7620-1
Date Collected: 01/31/25 08:00
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 15:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 11:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 11:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 10:18	CH	EET MID

Client Sample ID: BH-120 (4)
Lab Sample ID: 890-7620-2
Date Collected: 01/31/25 08:05
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 15:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 15:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 12:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 12:18	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 10:24	CH	EET MID

Client Sample ID: BH-95 (4)
Lab Sample ID: 890-7620-3
Date Collected: 01/31/25 08:10
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 15:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 15:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 12:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 10:30	CH	EET MID

Client Sample ID: BH-94 (4)
Lab Sample ID: 890-7620-4
Date Collected: 01/31/25 08:15
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 16:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 16:07	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: BH-94 (4)

Lab Sample ID: 890-7620-4

Date Collected: 01/31/25 08:15
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			101912	02/03/25 12:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 12:51	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 10:36	CH	EET MID

Client Sample ID: BH-87 (4)

Lab Sample ID: 890-7620-5

Date Collected: 01/31/25 08:20
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 16:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 13:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 13:07	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 10:54	CH	EET MID

Client Sample ID: BH-127 (3)

Lab Sample ID: 890-7620-6

Date Collected: 01/31/25 08:25
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 16:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 16:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 13:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 13:23	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 11:00	CH	EET MID

Client Sample ID: SW-36

Lab Sample ID: 890-7620-7

Date Collected: 01/31/25 08:30
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 17:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 13:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 13:39	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-36

Lab Sample ID: 890-7620-7

Date Collected: 01/31/25 08:30
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 11:06	CH	EET MID

Client Sample ID: SW-37

Lab Sample ID: 890-7620-8

Date Collected: 01/31/25 08:35
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 17:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 13:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101835	02/03/25 08:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101852	02/03/25 13:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 11:11	CH	EET MID

Client Sample ID: SW-34

Lab Sample ID: 890-7620-9

Date Collected: 01/31/25 08:40
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 19:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 11:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101836	02/03/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101854	02/03/25 11:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 11:17	CH	EET MID

Client Sample ID: SW-88

Lab Sample ID: 890-7620-10

Date Collected: 01/31/25 08:45
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 19:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 12:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101836	02/03/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101854	02/03/25 12:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 11:23	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Client Sample ID: SW-89

Lab Sample ID: 890-7620-11

Date Collected: 01/31/25 08:50
Date Received: 01/31/25 16:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101836	02/03/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101854	02/03/25 12:35	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 11:41	CH	EET MID

Client Sample ID: SW-86

Lab Sample ID: 890-7620-12

Date Collected: 01/31/25 08:55
Date Received: 01/31/25 16:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 20:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 12:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101836	02/03/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101854	02/03/25 12:51	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 11:47	CH	EET MID

Client Sample ID: SW-87

Lab Sample ID: 890-7620-13

Date Collected: 01/31/25 09:00
Date Received: 01/31/25 16:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 20:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 13:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101836	02/03/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101854	02/03/25 13:07	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 12:05	CH	EET MID

Client Sample ID: SW-90

Lab Sample ID: 890-7620-14

Date Collected: 01/31/25 09:05
Date Received: 01/31/25 16:03

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 20:45	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7620-1
Project/Site: Iceman SWD

Client Sample ID: SW-90
Lab Sample ID: 890-7620-14
Date Collected: 01/31/25 09:05
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			101912	02/03/25 13:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101836	02/03/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101854	02/03/25 13:23	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 12:11	CH	EET MID

Client Sample ID: SW-91
Lab Sample ID: 890-7620-15
Date Collected: 01/31/25 09:10
Matrix: Solid
Date Received: 01/31/25 16:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	101803	01/31/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101824	02/02/25 21:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101882	02/02/25 21:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101912	02/03/25 13:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101836	02/03/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101854	02/03/25 13:39	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	101822	02/01/25 12:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101847	02/03/25 12:17	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7620-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7620-1	BH-113 (4)	Solid	01/31/25 08:00	01/31/25 16:03
890-7620-2	BH-120 (4)	Solid	01/31/25 08:05	01/31/25 16:03
890-7620-3	BH-95 (4)	Solid	01/31/25 08:10	01/31/25 16:03
890-7620-4	BH-94 (4)	Solid	01/31/25 08:15	01/31/25 16:03
890-7620-5	BH-87 (4)	Solid	01/31/25 08:20	01/31/25 16:03
890-7620-6	BH-127 (3)	Solid	01/31/25 08:25	01/31/25 16:03
890-7620-7	SW-36	Solid	01/31/25 08:30	01/31/25 16:03
890-7620-8	SW-37	Solid	01/31/25 08:35	01/31/25 16:03
890-7620-9	SW-34	Solid	01/31/25 08:40	01/31/25 16:03
890-7620-10	SW-88	Solid	01/31/25 08:45	01/31/25 16:03
890-7620-11	SW-89	Solid	01/31/25 08:50	01/31/25 16:03
890-7620-12	SW-86	Solid	01/31/25 08:55	01/31/25 16:03
890-7620-13	SW-87	Solid	01/31/25 09:00	01/31/25 16:03
890-7620-14	SW-90	Solid	01/31/25 09:05	01/31/25 16:03
890-7620-15	SW-91	Solid	01/31/25 09:10	01/31/25 16:03

Page 1021 of 1592



Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-113 (4')	1/31/2025	8:00		X			X			X		X													X				
	BH-120 (4')	1/31/2025	8:05		X			X			X		X													X				
	BH-95 (4')	1/31/2025	8:10		X			X			X		X													X				
	BH-94 (4')	1/31/2025	8:15		X			X			X		X													X				
	BH-87 (4')	1/31/2025	8:20		X			X			X		X													X				
	BH-127 (3')	1/31/2025	8:25		X			X			X		X													X				
	SW-36	1/31/2025	8:30		X			X			X		X													X				
	SW-37	1/31/2025	8:35		X			X			X		X													X				
	SW-34	1/31/2025	8:40		X			X			X		X													X				
	SW-88	1/31/2025	8:45		X			X			X		X													X				

Relinquished by:	Date: 1-31-25	Time: 16:03	Received by: Date: Time: 16:05 1/31
~~Relinquished by:~~	~~Date:~~	~~Time:~~	~~Received by:~~ ~~Date:~~ ~~Time:~~
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

~~Sample Temperature~~

5.0

REMARKS:

- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

~~ORIGINAL COPY~~

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1022 of 1592

Analysis Request of Chain of Custody Record

2/3/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Solaris	**Site Manager:**	Brittany Long
Project Name:	Iceman SWD		(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state)	Eddy County, NM	**Project #:**	212C-MD-03085
Invoice to:	Solairs ATTN: Rob Kirk		
Receiving Laboratory:	Eurofins Laboratories	**Sampler Signature:**	Gary Allen
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2025)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance			Hold
	SW-89	1/31/2025	8:50		X				X					X		X												X							
	SW-86	1/31/2025	8:55		X				X					X		X												X							
	SW-87	1/31/2025	9:00		X				X					X		X												X							
	SW-90	1/31/2025	9:05		X				X					X		X												X							
	SW-91	1/31/2025	9:10		X				X					X		X												X							

Relinquished by:	Date: 1-31-25	Time: 16:03	Received by: Date: 1/31 Time: 16:05
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY
Sample Temperature
5.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 39 of 41

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7620-1

Login Number: 7620

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7620-1

Login Number: 7620
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/01/25 05:29 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/6/2025 5:21:44 PM

JOB DESCRIPTION

ICEMAN SWD
Eddy County NM

JOB NUMBER

890-7638-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

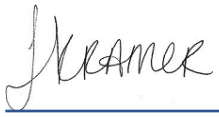
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/6/2025 5:21:44 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 23
QC Sample Results 25
QC Association Summary 32
Lab Chronicle 37
Certification Summary 43
Method Summary 44
Sample Summary 45
Chain of Custody 46
Receipt Checklists 47

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7638-1

Job ID: 890-7638-1 Eurofins Carlsbad

Job Narrative
890-7638-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/5/2025 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-46 (4) (890-7638-1), BH-212 (4) (890-7638-2), BH-171 (4) (890-7638-3), BH-172 (4) (890-7638-4), BH-173 (4) (890-7638-5), BH-174 (4) (890-7638-6), BH-175 (4) (890-7638-7), BH-176 (4) (890-7638-8), BH-177 (4) (890-7638-9), BH-183 (4) (890-7638-10), BH-184 (3) (890-7638-11), BH-185 (3) (890-7638-12), BH-186 (3) (890-7638-13), BH-187 (3) (890-7638-14), BH-198 (3) (890-7638-15), SW-50 (890-7638-16), SW-64 (890-7638-17), BH-253 (4) (890-7638-18) and BH-248 (3) (890-7638-19).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102122 and analytical batch 880-102040 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-46 (4) (890-7638-1), BH-177 (4) (890-7638-9) and (890-7638-A-1-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-102040 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-102040/49).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-46 (4) (890-7638-1), BH-212 (4) (890-7638-2) and BH-171 (4) (890-7638-3). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-183 (4) (890-7638-10). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH-174 (4) (890-7638-6). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102115 and analytical batch 880-102059 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7638-1

Job ID: 890-7638-1 (Continued)

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-46 (4)

Date Collected: 02/05/25 08:00
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:54	1
Ethylbenzene	<0.00200	U F2 *- F1	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:54	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:54	1
Xylenes, Total	<0.00401	U F2 *- F1	0.00401		mg/Kg		02/05/25 20:42	02/05/25 22:54	1
m-Xylene & p-Xylene	<0.00401	U F2 *- F1	0.00401		mg/Kg		02/05/25 20:42	02/05/25 22:54	1
o-Xylene	<0.00200	U F2 *- F1	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*02/05/25 20:42*	*02/05/25 22:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/05/25 20:42*	*02/05/25 22:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/05/25 22:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 02:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 02:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 02:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 02:43	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/05/25 16:28*	*02/06/25 02:43*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/05/25 16:28*	*02/06/25 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.1**		10.1		mg/Kg			02/06/25 11:13	1

Client Sample ID: BH-212 (4)

Date Collected: 02/05/25 08:05
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:14	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:14	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:14	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/05/25 23:14	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/05/25 23:14	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/05/25 20:42*	*02/05/25 23:14*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/05/25 20:42*	*02/05/25 23:14*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-212 (4)
Date Collected: 02/05/25 08:05
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/05/25 23:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/06/25 02:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 02:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 02:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 02:59	1
Total TPH	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/05/25 16:28*	*02/06/25 02:59*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/05/25 16:28*	*02/06/25 02:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.4**		9.98		mg/Kg			02/06/25 11:20	1

Client Sample ID: BH-171 (4)
Date Collected: 02/05/25 08:10
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:34	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:34	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:34	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/05/25 23:34	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/05/25 23:34	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/05/25 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*02/05/25 20:42*	*02/05/25 23:34*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/05/25 20:42*	*02/05/25 23:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/05/25 23:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/06/25 03:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 03:15	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-171 (4)
Date Collected: 02/05/25 08:10
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 03:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 03:15	1
Total TPH	<49.9	U	49.9		mg/Kg		02/05/25 16:28	02/06/25 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/05/25 16:28*	*02/06/25 03:15*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/05/25 16:28*	*02/06/25 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.8**		9.94		mg/Kg			02/06/25 11:28	1

Client Sample ID: BH-172 (4)
Date Collected: 02/05/25 08:15
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/05/25 23:55	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/05/25 23:55	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/05/25 23:55	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/05/25 23:55	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/05/25 23:55	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/05/25 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*02/05/25 20:42*	*02/05/25 23:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/05/25 23:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/05/25 23:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 03:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:31	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*02/05/25 16:28*	*02/06/25 03:31*	*1*
o-Terphenyl	*72*		*70 - 130*	*02/05/25 16:28*	*02/06/25 03:31*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-172 (4)
Date Collected: 02/05/25 08:15
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	656		10.0		mg/Kg			02/06/25 11:35	1

Client Sample ID: BH-173 (4)
Date Collected: 02/05/25 08:20
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:15	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:15	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:15	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 00:15	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 00:15	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/05/25 20:42*	*02/06/25 00:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/06/25 00:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 00:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 03:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:47	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:28	02/06/25 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*02/05/25 16:28*	*02/06/25 03:47*	*1*
o-Terphenyl	*76*		*70 - 130*	*02/05/25 16:28*	*02/06/25 03:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		10.1		mg/Kg			02/06/25 11:42	1

Client Sample ID: BH-174 (4)
Date Collected: 02/05/25 08:25
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:36	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:36	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-174 (4)

Date Collected: 02/05/25 08:25
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-6

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:36	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 00:36	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 00:36	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/05/25 20:42*	*02/06/25 00:36*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/06/25 00:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 00:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/06/25 04:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/05/25 16:28	02/06/25 04:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/05/25 16:28	02/06/25 04:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/05/25 16:28	02/06/25 04:04	1
Total TPH	<49.7	U	49.7		mg/Kg		02/05/25 16:28	02/06/25 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*02/05/25 16:28*	*02/06/25 04:04*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*02/05/25 16:28*	*02/06/25 04:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**199**		9.98		mg/Kg			02/06/25 11:50	1

Client Sample ID: BH-175 (4)

Date Collected: 02/05/25 08:30
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-7

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 00:56	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 00:56	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 00:56	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 00:56	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 00:56	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/05/25 20:42*	*02/06/25 00:56*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/06/25 00:56*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-175 (4)

Date Collected: 02/05/25 08:30
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/06/25 00:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/06/25 00:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:33	1
Total TPH	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*02/05/25 16:31*	*02/06/25 00:33*	*1*
o-Terphenyl	*91*		*70 - 130*	*02/05/25 16:31*	*02/06/25 00:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.2**		10.1		mg/Kg			02/06/25 12:12	1

Client Sample ID: BH-176 (4)

Date Collected: 02/05/25 08:35
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:17	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:17	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:17	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 01:17	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 01:17	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/05/25 20:42*	*02/06/25 01:17*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/06/25 01:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 01:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/06/25 00:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:49	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-176 (4)

Date Collected: 02/05/25 08:35
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:49	1
Total TPH	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*02/05/25 16:31*	*02/06/25 00:49*	*1*
o-Terphenyl	*93*		*70 - 130*	*02/05/25 16:31*	*02/06/25 00:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**279**		10.0		mg/Kg			02/06/25 12:20	1

Client Sample ID: BH-177 (4)

Date Collected: 02/05/25 08:40
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 01:37	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 01:37	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 01:37	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 01:37	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 01:37	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/05/25 20:42*	*02/06/25 01:37*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/05/25 20:42*	*02/06/25 01:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/06/25 01:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/06/25 01:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 01:04	1
Total TPH	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*02/05/25 16:31*	*02/06/25 01:04*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/05/25 16:31*	*02/06/25 01:04*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-177 (4)
Date Collected: 02/05/25 08:40
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		9.96		mg/Kg			02/06/25 12:42	1

Client Sample ID: BH-183 (4)
Date Collected: 02/05/25 08:45
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:58	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:58	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:58	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 01:58	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 01:58	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*02/05/25 20:42*	*02/06/25 01:58*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/05/25 20:42*	*02/06/25 01:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 01:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 01:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 01:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 01:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 01:37	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*02/05/25 16:31*	*02/06/25 01:37*	*1*
o-Terphenyl	*102*		*70 - 130*	*02/05/25 16:31*	*02/06/25 01:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8		10.1		mg/Kg			02/06/25 12:50	1

Client Sample ID: BH-184 (3)
Date Collected: 02/05/25 08:50
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 03:21	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 03:21	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-184 (3)
Date Collected: 02/05/25 08:50
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 03:21	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 03:21	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 03:21	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/05/25 20:42*	*02/06/25 03:21*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/06/25 03:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/06/25 03:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/06/25 01:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 01:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 01:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 01:53	1
Total TPH	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*02/05/25 16:31*	*02/06/25 01:53*	*1*
o-Terphenyl	*93*		*70 - 130*	*02/05/25 16:31*	*02/06/25 01:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		9.94		mg/Kg			02/06/25 12:57	1

Client Sample ID: BH-185 (3)
Date Collected: 02/05/25 08:55
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198		mg/Kg		02/05/25 20:42	02/06/25 03:42	1
Ethylbenzene	<0.00198	U *-	0.00198		mg/Kg		02/05/25 20:42	02/06/25 03:42	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		02/05/25 20:42	02/06/25 03:42	1
Xylenes, Total	<0.00396	U *-	0.00396		mg/Kg		02/05/25 20:42	02/06/25 03:42	1
m-Xylene & p-Xylene	<0.00396	U *-	0.00396		mg/Kg		02/05/25 20:42	02/06/25 03:42	1
o-Xylene	<0.00198	U *-	0.00198		mg/Kg		02/05/25 20:42	02/06/25 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/05/25 20:42*	*02/06/25 03:42*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/05/25 20:42*	*02/06/25 03:42*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-185 (3)
Date Collected: 02/05/25 08:55
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-12
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/06/25 03:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 02:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:10	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:10*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.5**		10.1		mg/Kg			02/06/25 13:05	1

Client Sample ID: BH-186 (3)
Date Collected: 02/05/25 09:00
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:02	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:02	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:02	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 04:02	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 04:02	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/05/25 20:42*	*02/06/25 04:02*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/05/25 20:42*	*02/06/25 04:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/06/25 04:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 02:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:26	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-186 (3)
Date Collected: 02/05/25 09:00
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-13
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:26	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:26*	*1*
o-Terphenyl	*102*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.3**		10.0		mg/Kg			02/06/25 13:12	1

Client Sample ID: BH-187 (3)
Date Collected: 02/05/25 09:05
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:23	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:23	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:23	1
Xylenes, Total	<0.00401	U *-	0.00401		mg/Kg		02/05/25 20:42	02/06/25 04:23	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		02/05/25 20:42	02/06/25 04:23	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*02/05/25 20:42*	*02/06/25 04:23*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/05/25 20:42*	*02/06/25 04:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/06/25 04:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/06/25 02:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/05/25 16:31	02/06/25 02:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/05/25 16:31	02/06/25 02:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/05/25 16:31	02/06/25 02:43	1
Total TPH	<49.7	U	49.7		mg/Kg		02/05/25 16:31	02/06/25 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:43*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:43*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-187 (3)
Date Collected: 02/05/25 09:05
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.5		9.94		mg/Kg			02/06/25 13:19	1

Client Sample ID: BH-198 (3)
Date Collected: 02/05/25 09:10
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-15
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 04:43	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 04:43	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 04:43	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 04:43	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 04:43	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/05/25 20:42*	*02/06/25 04:43*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/05/25 20:42*	*02/06/25 04:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 04:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 02:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:59	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:59*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/05/25 16:31*	*02/06/25 02:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.0		10.0		mg/Kg			02/06/25 13:27	1

Client Sample ID: SW-50
Date Collected: 02/05/25 09:15
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 05:04	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 05:04	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: SW-50
Date Collected: 02/05/25 09:15
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 05:04	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 05:04	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		02/05/25 20:42	02/06/25 05:04	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		02/05/25 20:42	02/06/25 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/05/25 20:42*	*02/06/25 05:04*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/05/25 20:42*	*02/06/25 05:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/06/25 05:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/06/25 03:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:15	1
Total TPH	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*02/05/25 16:31*	*02/06/25 03:15*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/05/25 16:31*	*02/06/25 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**157**		10.1		mg/Kg			02/06/25 10:35	1

Client Sample ID: SW-64
Date Collected: 02/05/25 09:20
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 05:24	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 05:24	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 05:24	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 05:24	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		02/05/25 20:42	02/06/25 05:24	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*02/05/25 20:42*	*02/06/25 05:24*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/06/25 05:24*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: SW-64

Date Collected: 02/05/25 09:20
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-17
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/06/25 05:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/06/25 03:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:31	1
Total TPH	<49.9	U	49.9		mg/Kg		02/05/25 16:31	02/06/25 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*02/05/25 16:31*	*02/06/25 03:31*	*1*
o-Terphenyl	*94*		*70 - 130*	*02/05/25 16:31*	*02/06/25 03:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		10.1		mg/Kg			02/06/25 10:53	1

Client Sample ID: BH-253 (4)

Date Collected: 02/05/25 09:25
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		02/05/25 20:42	02/06/25 05:45	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		02/05/25 20:42	02/06/25 05:45	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		02/05/25 20:42	02/06/25 05:45	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		02/05/25 20:42	02/06/25 05:45	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		02/05/25 20:42	02/06/25 05:45	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		02/05/25 20:42	02/06/25 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/05/25 20:42*	*02/06/25 05:45*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/05/25 20:42*	*02/06/25 05:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/06/25 05:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/06/25 03:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 03:47	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-253 (4)
Date Collected: 02/05/25 09:25
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-18
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 03:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 03:47	1
Total TPH	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/06/25 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*02/05/25 16:31*	*02/06/25 03:47*	*1*
o-Terphenyl	*102*		*70 - 130*	*02/05/25 16:31*	*02/06/25 03:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6710**		99.6		mg/Kg			02/06/25 10:59	10

Client Sample ID: BH-248 (3)
Date Collected: 02/05/25 09:30
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-19
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 06:05	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 06:05	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 06:05	1
Xylenes, Total	<0.00401	U *-	0.00401		mg/Kg		02/05/25 20:42	02/06/25 06:05	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		02/05/25 20:42	02/06/25 06:05	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		02/05/25 20:42	02/06/25 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/05/25 20:42*	*02/06/25 06:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/05/25 20:42*	*02/06/25 06:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/06/25 06:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/06/25 04:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 04:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 04:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 04:04	1
Total TPH	<49.8	U	49.8		mg/Kg		02/05/25 16:31	02/06/25 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/05/25 16:31*	*02/06/25 04:04*	*1*
o-Terphenyl	*92*		*70 - 130*	*02/05/25 16:31*	*02/06/25 04:04*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-248 (3)

Date Collected: 02/05/25 09:30
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-19

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		10.0		mg/Kg			02/06/25 11:05	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7638-1	BH-46 (4)	135 S1+	92
890-7638-1 MS	BH-46 (4)	134 S1+	94
890-7638-1 MSD	BH-46 (4)	101	103
890-7638-2	BH-212 (4)	114	98
890-7638-3	BH-171 (4)	128	95
890-7638-4	BH-172 (4)	123	97
890-7638-5	BH-173 (4)	121	97
890-7638-6	BH-174 (4)	119	97
890-7638-7	BH-175 (4)	120	97
890-7638-8	BH-176 (4)	115	97
890-7638-9	BH-177 (4)	137 S1+	95
890-7638-10	BH-183 (4)	128	95
890-7638-11	BH-184 (3)	126	97
890-7638-12	BH-185 (3)	115	98
890-7638-13	BH-186 (3)	126	93
890-7638-14	BH-187 (3)	128	95
890-7638-15	BH-198 (3)	120	96
890-7638-16	SW-50	119	99
890-7638-17	SW-64	124	97
890-7638-18	BH-253 (4)	126	99
890-7638-19	BH-248 (3)	118	97
LCS 880-102122/1-A	Lab Control Sample	97	104
LCSD 880-102122/2-A	Lab Control Sample Dup	94	105
MB 880-102037/5-A	Method Blank	108	86
MB 880-102122/5-A	Method Blank	114	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7633-A-1-B MS	Matrix Spike	71	72
890-7633-A-1-C MSD	Matrix Spike Duplicate	70	72
890-7636-A-1-F MS	Matrix Spike	117	101
890-7636-A-1-G MSD	Matrix Spike Duplicate	115	101
890-7638-1	BH-46 (4)	75	68 S1-
890-7638-2	BH-212 (4)	73	66 S1-
890-7638-3	BH-171 (4)	75	68 S1-
890-7638-4	BH-172 (4)	79	72
890-7638-5	BH-173 (4)	86	76
890-7638-6	BH-174 (4)	69 S1-	62 S1-
890-7638-7	BH-175 (4)	116	91
890-7638-8	BH-176 (4)	119	93
890-7638-9	BH-177 (4)	122	95
890-7638-10	BH-183 (4)	131 S1+	102

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-7638-11	BH-184 (3)	119	93								
890-7638-12	BH-185 (3)	124	100								
890-7638-13	BH-186 (3)	125	102								
890-7638-14	BH-187 (3)	127	106								
890-7638-15	BH-198 (3)	128	106								
890-7638-16	SW-50	121	96								
890-7638-17	SW-64	120	94								
890-7638-18	BH-253 (4)	125	102								
890-7638-19	BH-248 (3)	115	92								
LCS 880-102114/2-A	Lab Control Sample	72	75								
LCS 880-102115/2-A	Lab Control Sample	119	111								
LCSD 880-102114/3-A	Lab Control Sample Dup	73	74								
LCSD 880-102115/3-A	Lab Control Sample Dup	103	92								
MB 880-102114/1-A	Method Blank	92	86								
MB 880-102115/1-A	Method Blank	164 S1+	137 S1+								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102037/5-A
Matrix: Solid
Analysis Batch: 102040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/25 08:10	02/05/25 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/25 08:10	02/05/25 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/25 08:10	02/05/25 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/05/25 08:10	02/05/25 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/05/25 08:10	02/05/25 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/25 08:10	02/05/25 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/05/25 08:10*	*02/05/25 11:12*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/05/25 08:10*	*02/05/25 11:12*	*1*

Lab Sample ID: MB 880-102122/5-A
Matrix: Solid
Analysis Batch: 102040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/05/25 20:42	02/05/25 22:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/05/25 20:42	02/05/25 22:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/25 20:42	02/05/25 22:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/05/25 20:42*	*02/05/25 22:32*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/05/25 20:42*	*02/05/25 22:32*	*1*

Lab Sample ID: LCS 880-102122/1-A
Matrix: Solid
Analysis Batch: 102040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1034		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09332		mg/Kg		93	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.1936		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09800		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-102122/2-A
Matrix: Solid
Analysis Batch: 102040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.201	0.1037	*-	mg/Kg		52	70 - 130	0	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-102122/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102040 — **Prep Batch: 102122**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.201	0.09237	*-	mg/Kg		46	70 - 130	1	35
Toluene			0.201	0.1028	*-	mg/Kg		51	70 - 130	0	35
m-Xylene & p-Xylene			0.401	0.1914	*-	mg/Kg		48	70 - 130	1	35
o-Xylene			0.201	0.09699	*-	mg/Kg		48	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-7638-1 MS — **Client Sample ID: BH-46 (4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102040 — **Prep Batch: 102122**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U *-	0.0998	0.08802		mg/Kg		88	70 - 130
Ethylbenzene	<0.00200	U F2 *- F1	0.0998	0.1327	F1	mg/Kg		133	70 - 130
Toluene	<0.00200	U *-	0.0998	0.1297		mg/Kg		130	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2 *- F1	0.200	0.2823	F1	mg/Kg		141	70 - 130
o-Xylene	<0.00200	U F2 *- F1	0.0998	0.1344	F1	mg/Kg		135	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-7638-1 MSD — **Client Sample ID: BH-46 (4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102040 — **Prep Batch: 102122**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U *-	0.0996	0.09427		mg/Kg		95	70 - 130	7	35
Ethylbenzene	<0.00200	U F2 *- F1	0.0996	0.08902	F2	mg/Kg		89	70 - 130	39	35
Toluene	<0.00200	U *-	0.0996	0.09678		mg/Kg		97	70 - 130	29	35
m-Xylene & p-Xylene	<0.00401	U F2 *- F1	0.199	0.1859	F2	mg/Kg		93	70 - 130	41	35
o-Xylene	<0.00200	U F2 *- F1	0.0996	0.09278	F2	mg/Kg		93	70 - 130	37	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102114/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102057 — **Prep Batch: 102114**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/05/25 16:28	02/05/25 17:44	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-102114/1-A
Matrix: Solid
Analysis Batch: 102057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/05/25 16:28	02/05/25 17:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/05/25 16:28	02/05/25 17:44	1
Total TPH	<50.0	U	50.0		mg/Kg		02/05/25 16:28	02/05/25 17:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/05/25 16:28*	*02/05/25 17:44*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/05/25 16:28*	*02/05/25 17:44*	*1*

Lab Sample ID: LCS 880-102114/2-A
Matrix: Solid
Analysis Batch: 102057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	862.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	869.2		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*72*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: LCSD 880-102114/3-A
Matrix: Solid
Analysis Batch: 102057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	723.2		mg/Kg		72	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	741.9		mg/Kg		74	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: 890-7633-A-1-B MS
Matrix: Solid
Analysis Batch: 102057

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	826.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	845.3		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*71*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7633-A-1-B MS
Matrix: Solid
Analysis Batch: 102057

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102114

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-7633-A-1-C MSD
Matrix: Solid
Analysis Batch: 102057

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 102114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	755.6		mg/Kg		76	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	785.2		mg/Kg		79	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: MB 880-102115/1-A
Matrix: Solid
Analysis Batch: 102059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/05/25 17:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/05/25 17:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/05/25 17:44	1
Total TPH	<50.0	U	50.0		mg/Kg		02/05/25 16:31	02/05/25 17:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	02/05/25 16:31	02/05/25 17:44	1
o-Terphenyl	137	S1+	70 - 130	02/05/25 16:31	02/05/25 17:44	1

Lab Sample ID: LCS 880-102115/2-A
Matrix: Solid
Analysis Batch: 102059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1206		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1164		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	111		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-102115/3-A
Matrix: Solid
Analysis Batch: 102059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102115

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1212		mg/Kg		121	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1156		mg/Kg		116	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-7636-A-1-F MS
Matrix: Solid
Analysis Batch: 102059

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102115

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1125		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	1109		mg/Kg		111	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 890-7636-A-1-G MSD
Matrix: Solid
Analysis Batch: 102059

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 102115

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1072		mg/Kg		108	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	1113		mg/Kg		112	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102134/1-A
Matrix: Solid
Analysis Batch: 102145

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/06/25 09:40	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102134/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	262.8		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-102134/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.4		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-54131-A-1-H MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61.5		251	334.1		mg/Kg		109	90 - 110		

Lab Sample ID: 880-54131-A-1-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102145

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.5		251	335.4		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-102133/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/06/25 09:43	1

Lab Sample ID: LCS 880-102133/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102147

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.7		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-102133/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102147

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.9		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 890-7638-6 MS — **Client Sample ID: BH-174 (4)**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	199		250	461.0		mg/Kg		105	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7638-6 MSD
Matrix: Solid
Analysis Batch: 102147

Client Sample ID: BH-174 (4)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	199		250	455.1		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

GC VOA

Prep Batch: 102037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102037/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 102040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Total/NA	Solid	8021B	102122
890-7638-2	BH-212 (4)	Total/NA	Solid	8021B	102122
890-7638-3	BH-171 (4)	Total/NA	Solid	8021B	102122
890-7638-4	BH-172 (4)	Total/NA	Solid	8021B	102122
890-7638-5	BH-173 (4)	Total/NA	Solid	8021B	102122
890-7638-6	BH-174 (4)	Total/NA	Solid	8021B	102122
890-7638-7	BH-175 (4)	Total/NA	Solid	8021B	102122
890-7638-8	BH-176 (4)	Total/NA	Solid	8021B	102122
890-7638-9	BH-177 (4)	Total/NA	Solid	8021B	102122
890-7638-10	BH-183 (4)	Total/NA	Solid	8021B	102122
890-7638-11	BH-184 (3)	Total/NA	Solid	8021B	102122
890-7638-12	BH-185 (3)	Total/NA	Solid	8021B	102122
890-7638-13	BH-186 (3)	Total/NA	Solid	8021B	102122
890-7638-14	BH-187 (3)	Total/NA	Solid	8021B	102122
890-7638-15	BH-198 (3)	Total/NA	Solid	8021B	102122
890-7638-16	SW-50	Total/NA	Solid	8021B	102122
890-7638-17	SW-64	Total/NA	Solid	8021B	102122
890-7638-18	BH-253 (4)	Total/NA	Solid	8021B	102122
890-7638-19	BH-248 (3)	Total/NA	Solid	8021B	102122
MB 880-102037/5-A	Method Blank	Total/NA	Solid	8021B	102037
MB 880-102122/5-A	Method Blank	Total/NA	Solid	8021B	102122
LCS 880-102122/1-A	Lab Control Sample	Total/NA	Solid	8021B	102122
LCSD 880-102122/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102122
890-7638-1 MS	BH-46 (4)	Total/NA	Solid	8021B	102122
890-7638-1 MSD	BH-46 (4)	Total/NA	Solid	8021B	102122

Prep Batch: 102122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Total/NA	Solid	5035	
890-7638-2	BH-212 (4)	Total/NA	Solid	5035	
890-7638-3	BH-171 (4)	Total/NA	Solid	5035	
890-7638-4	BH-172 (4)	Total/NA	Solid	5035	
890-7638-5	BH-173 (4)	Total/NA	Solid	5035	
890-7638-6	BH-174 (4)	Total/NA	Solid	5035	
890-7638-7	BH-175 (4)	Total/NA	Solid	5035	
890-7638-8	BH-176 (4)	Total/NA	Solid	5035	
890-7638-9	BH-177 (4)	Total/NA	Solid	5035	
890-7638-10	BH-183 (4)	Total/NA	Solid	5035	
890-7638-11	BH-184 (3)	Total/NA	Solid	5035	
890-7638-12	BH-185 (3)	Total/NA	Solid	5035	
890-7638-13	BH-186 (3)	Total/NA	Solid	5035	
890-7638-14	BH-187 (3)	Total/NA	Solid	5035	
890-7638-15	BH-198 (3)	Total/NA	Solid	5035	
890-7638-16	SW-50	Total/NA	Solid	5035	
890-7638-17	SW-64	Total/NA	Solid	5035	
890-7638-18	BH-253 (4)	Total/NA	Solid	5035	
890-7638-19	BH-248 (3)	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 102122 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102122/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102122/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102122/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7638-1 MS	BH-46 (4)	Total/NA	Solid	5035	
890-7638-1 MSD	BH-46 (4)	Total/NA	Solid	5035	

Analysis Batch: 102146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Total/NA	Solid	Total BTEX	
890-7638-2	BH-212 (4)	Total/NA	Solid	Total BTEX	
890-7638-3	BH-171 (4)	Total/NA	Solid	Total BTEX	
890-7638-4	BH-172 (4)	Total/NA	Solid	Total BTEX	
890-7638-5	BH-173 (4)	Total/NA	Solid	Total BTEX	
890-7638-6	BH-174 (4)	Total/NA	Solid	Total BTEX	
890-7638-7	BH-175 (4)	Total/NA	Solid	Total BTEX	
890-7638-8	BH-176 (4)	Total/NA	Solid	Total BTEX	
890-7638-9	BH-177 (4)	Total/NA	Solid	Total BTEX	
890-7638-10	BH-183 (4)	Total/NA	Solid	Total BTEX	
890-7638-11	BH-184 (3)	Total/NA	Solid	Total BTEX	
890-7638-12	BH-185 (3)	Total/NA	Solid	Total BTEX	
890-7638-13	BH-186 (3)	Total/NA	Solid	Total BTEX	
890-7638-14	BH-187 (3)	Total/NA	Solid	Total BTEX	
890-7638-15	BH-198 (3)	Total/NA	Solid	Total BTEX	
890-7638-16	SW-50	Total/NA	Solid	Total BTEX	
890-7638-17	SW-64	Total/NA	Solid	Total BTEX	
890-7638-18	BH-253 (4)	Total/NA	Solid	Total BTEX	
890-7638-19	BH-248 (3)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 102057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Total/NA	Solid	8015B NM	102114
890-7638-2	BH-212 (4)	Total/NA	Solid	8015B NM	102114
890-7638-3	BH-171 (4)	Total/NA	Solid	8015B NM	102114
890-7638-4	BH-172 (4)	Total/NA	Solid	8015B NM	102114
890-7638-5	BH-173 (4)	Total/NA	Solid	8015B NM	102114
890-7638-6	BH-174 (4)	Total/NA	Solid	8015B NM	102114
MB 880-102114/1-A	Method Blank	Total/NA	Solid	8015B NM	102114
LCS 880-102114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102114
LCSD 880-102114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102114
890-7633-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	102114
890-7633-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102114

Analysis Batch: 102059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-7	BH-175 (4)	Total/NA	Solid	8015B NM	102115
890-7638-8	BH-176 (4)	Total/NA	Solid	8015B NM	102115
890-7638-9	BH-177 (4)	Total/NA	Solid	8015B NM	102115
890-7638-10	BH-183 (4)	Total/NA	Solid	8015B NM	102115
890-7638-11	BH-184 (3)	Total/NA	Solid	8015B NM	102115

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 102059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-12	BH-185 (3)	Total/NA	Solid	8015B NM	102115
890-7638-13	BH-186 (3)	Total/NA	Solid	8015B NM	102115
890-7638-14	BH-187 (3)	Total/NA	Solid	8015B NM	102115
890-7638-15	BH-198 (3)	Total/NA	Solid	8015B NM	102115
890-7638-16	SW-50	Total/NA	Solid	8015B NM	102115
890-7638-17	SW-64	Total/NA	Solid	8015B NM	102115
890-7638-18	BH-253 (4)	Total/NA	Solid	8015B NM	102115
890-7638-19	BH-248 (3)	Total/NA	Solid	8015B NM	102115
MB 880-102115/1-A	Method Blank	Total/NA	Solid	8015B NM	102115
LCS 880-102115/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102115
LCSD 880-102115/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102115
890-7636-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	102115
890-7636-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102115

Prep Batch: 102114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Total/NA	Solid	8015NM Prep	
890-7638-2	BH-212 (4)	Total/NA	Solid	8015NM Prep	
890-7638-3	BH-171 (4)	Total/NA	Solid	8015NM Prep	
890-7638-4	BH-172 (4)	Total/NA	Solid	8015NM Prep	
890-7638-5	BH-173 (4)	Total/NA	Solid	8015NM Prep	
890-7638-6	BH-174 (4)	Total/NA	Solid	8015NM Prep	
MB 880-102114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7633-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7633-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 102115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-7	BH-175 (4)	Total/NA	Solid	8015NM Prep	
890-7638-8	BH-176 (4)	Total/NA	Solid	8015NM Prep	
890-7638-9	BH-177 (4)	Total/NA	Solid	8015NM Prep	
890-7638-10	BH-183 (4)	Total/NA	Solid	8015NM Prep	
890-7638-11	BH-184 (3)	Total/NA	Solid	8015NM Prep	
890-7638-12	BH-185 (3)	Total/NA	Solid	8015NM Prep	
890-7638-13	BH-186 (3)	Total/NA	Solid	8015NM Prep	
890-7638-14	BH-187 (3)	Total/NA	Solid	8015NM Prep	
890-7638-15	BH-198 (3)	Total/NA	Solid	8015NM Prep	
890-7638-16	SW-50	Total/NA	Solid	8015NM Prep	
890-7638-17	SW-64	Total/NA	Solid	8015NM Prep	
890-7638-18	BH-253 (4)	Total/NA	Solid	8015NM Prep	
890-7638-19	BH-248 (3)	Total/NA	Solid	8015NM Prep	
MB 880-102115/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102115/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102115/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7636-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7636-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 102144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Total/NA	Solid	8015 NM	
890-7638-2	BH-212 (4)	Total/NA	Solid	8015 NM	
890-7638-3	BH-171 (4)	Total/NA	Solid	8015 NM	
890-7638-4	BH-172 (4)	Total/NA	Solid	8015 NM	
890-7638-5	BH-173 (4)	Total/NA	Solid	8015 NM	
890-7638-6	BH-174 (4)	Total/NA	Solid	8015 NM	
890-7638-7	BH-175 (4)	Total/NA	Solid	8015 NM	
890-7638-8	BH-176 (4)	Total/NA	Solid	8015 NM	
890-7638-9	BH-177 (4)	Total/NA	Solid	8015 NM	
890-7638-10	BH-183 (4)	Total/NA	Solid	8015 NM	
890-7638-11	BH-184 (3)	Total/NA	Solid	8015 NM	
890-7638-12	BH-185 (3)	Total/NA	Solid	8015 NM	
890-7638-13	BH-186 (3)	Total/NA	Solid	8015 NM	
890-7638-14	BH-187 (3)	Total/NA	Solid	8015 NM	
890-7638-15	BH-198 (3)	Total/NA	Solid	8015 NM	
890-7638-16	SW-50	Total/NA	Solid	8015 NM	
890-7638-17	SW-64	Total/NA	Solid	8015 NM	
890-7638-18	BH-253 (4)	Total/NA	Solid	8015 NM	
890-7638-19	BH-248 (3)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Soluble	Solid	DI Leach	
890-7638-2	BH-212 (4)	Soluble	Solid	DI Leach	
890-7638-3	BH-171 (4)	Soluble	Solid	DI Leach	
890-7638-4	BH-172 (4)	Soluble	Solid	DI Leach	
890-7638-5	BH-173 (4)	Soluble	Solid	DI Leach	
890-7638-6	BH-174 (4)	Soluble	Solid	DI Leach	
890-7638-7	BH-175 (4)	Soluble	Solid	DI Leach	
890-7638-8	BH-176 (4)	Soluble	Solid	DI Leach	
890-7638-9	BH-177 (4)	Soluble	Solid	DI Leach	
890-7638-10	BH-183 (4)	Soluble	Solid	DI Leach	
890-7638-11	BH-184 (3)	Soluble	Solid	DI Leach	
890-7638-12	BH-185 (3)	Soluble	Solid	DI Leach	
890-7638-13	BH-186 (3)	Soluble	Solid	DI Leach	
890-7638-14	BH-187 (3)	Soluble	Solid	DI Leach	
890-7638-15	BH-198 (3)	Soluble	Solid	DI Leach	
MB 880-102133/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102133/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102133/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7638-6 MS	BH-174 (4)	Soluble	Solid	DI Leach	
890-7638-6 MSD	BH-174 (4)	Soluble	Solid	DI Leach	

Leach Batch: 102134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-16	SW-50	Soluble	Solid	DI Leach	
890-7638-17	SW-64	Soluble	Solid	DI Leach	
890-7638-18	BH-253 (4)	Soluble	Solid	DI Leach	
890-7638-19	BH-248 (3)	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 102134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102134/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102134/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102134/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54131-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
880-54131-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-16	SW-50	Soluble	Solid	300.0	102134
890-7638-17	SW-64	Soluble	Solid	300.0	102134
890-7638-18	BH-253 (4)	Soluble	Solid	300.0	102134
890-7638-19	BH-248 (3)	Soluble	Solid	300.0	102134
MB 880-102134/1-A	Method Blank	Soluble	Solid	300.0	102134
LCS 880-102134/2-A	Lab Control Sample	Soluble	Solid	300.0	102134
LCSD 880-102134/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102134
880-54131-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	102134
880-54131-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102134

Analysis Batch: 102147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7638-1	BH-46 (4)	Soluble	Solid	300.0	102133
890-7638-2	BH-212 (4)	Soluble	Solid	300.0	102133
890-7638-3	BH-171 (4)	Soluble	Solid	300.0	102133
890-7638-4	BH-172 (4)	Soluble	Solid	300.0	102133
890-7638-5	BH-173 (4)	Soluble	Solid	300.0	102133
890-7638-6	BH-174 (4)	Soluble	Solid	300.0	102133
890-7638-7	BH-175 (4)	Soluble	Solid	300.0	102133
890-7638-8	BH-176 (4)	Soluble	Solid	300.0	102133
890-7638-9	BH-177 (4)	Soluble	Solid	300.0	102133
890-7638-10	BH-183 (4)	Soluble	Solid	300.0	102133
890-7638-11	BH-184 (3)	Soluble	Solid	300.0	102133
890-7638-12	BH-185 (3)	Soluble	Solid	300.0	102133
890-7638-13	BH-186 (3)	Soluble	Solid	300.0	102133
890-7638-14	BH-187 (3)	Soluble	Solid	300.0	102133
890-7638-15	BH-198 (3)	Soluble	Solid	300.0	102133
MB 880-102133/1-A	Method Blank	Soluble	Solid	300.0	102133
LCS 880-102133/2-A	Lab Control Sample	Soluble	Solid	300.0	102133
LCSD 880-102133/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102133
890-7638-6 MS	BH-174 (4)	Soluble	Solid	300.0	102133
890-7638-6 MSD	BH-174 (4)	Soluble	Solid	300.0	102133

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-46 (4)
Date Collected: 02/05/25 08:00
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/05/25 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/05/25 22:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 02:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102114	02/05/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102057	02/06/25 02:43	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 11:13	CH	EET MID

Client Sample ID: BH-212 (4)
Date Collected: 02/05/25 08:05
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/05/25 23:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/05/25 23:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 02:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102114	02/05/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102057	02/06/25 02:59	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 11:20	CH	EET MID

Client Sample ID: BH-171 (4)
Date Collected: 02/05/25 08:10
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/05/25 23:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/05/25 23:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 03:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102114	02/05/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102057	02/06/25 03:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 11:28	CH	EET MID

Client Sample ID: BH-172 (4)
Date Collected: 02/05/25 08:15
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/05/25 23:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/05/25 23:55	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-172 (4)
Date Collected: 02/05/25 08:15
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102144	02/06/25 03:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102114	02/05/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102057	02/06/25 03:31	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 11:35	CH	EET MID

Client Sample ID: BH-173 (4)
Date Collected: 02/05/25 08:20
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 00:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 00:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 03:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102114	02/05/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102057	02/06/25 03:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 11:42	CH	EET MID

Client Sample ID: BH-174 (4)
Date Collected: 02/05/25 08:25
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 00:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 00:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 04:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102114	02/05/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102057	02/06/25 04:04	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 11:50	CH	EET MID

Client Sample ID: BH-175 (4)
Date Collected: 02/05/25 08:30
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 00:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 00:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 00:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 00:33	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-175 (4)
Date Collected: 02/05/25 08:30
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 12:12	CH	EET MID

Client Sample ID: BH-176 (4)
Date Collected: 02/05/25 08:35
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 01:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 00:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 00:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 12:20	CH	EET MID

Client Sample ID: BH-177 (4)
Date Collected: 02/05/25 08:40
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 01:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 01:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 01:04	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 12:42	CH	EET MID

Client Sample ID: BH-183 (4)
Date Collected: 02/05/25 08:45
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 01:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 01:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 01:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 01:37	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 12:50	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-184 (3)
Date Collected: 02/05/25 08:50
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 03:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 03:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 01:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 01:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 12:57	CH	EET MID

Client Sample ID: BH-185 (3)
Date Collected: 02/05/25 08:55
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 03:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 03:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 02:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 02:10	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 13:05	CH	EET MID

Client Sample ID: BH-186 (3)
Date Collected: 02/05/25 09:00
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 04:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 04:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 02:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 02:26	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 13:12	CH	EET MID

Client Sample ID: BH-187 (3)
Date Collected: 02/05/25 09:05
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 04:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 04:23	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: BH-187 (3)
Date Collected: 02/05/25 09:05
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102144	02/06/25 02:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 02:43	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 13:19	CH	EET MID

Client Sample ID: BH-198 (3)
Date Collected: 02/05/25 09:10
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 04:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 04:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 02:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 02:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102133	02/06/25 07:54	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102147	02/06/25 13:27	CH	EET MID

Client Sample ID: SW-50
Date Collected: 02/05/25 09:15
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 05:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 05:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 03:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 03:15	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102145	02/06/25 10:35	CH	EET MID

Client Sample ID: SW-64
Date Collected: 02/05/25 09:20
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 05:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 03:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 03:31	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Client Sample ID: SW-64
Date Collected: 02/05/25 09:20
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102145	02/06/25 10:53	CH	EET MID

Client Sample ID: BH-253 (4)
Date Collected: 02/05/25 09:25
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 05:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 03:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 03:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	102145	02/06/25 10:59	CH	EET MID

Client Sample ID: BH-248 (3)
Date Collected: 02/05/25 09:30
Date Received: 02/05/25 16:15

Lab Sample ID: 890-7638-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102122	02/05/25 20:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/06/25 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102146	02/06/25 06:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102144	02/06/25 04:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102115	02/05/25 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102059	02/06/25 04:04	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102145	02/06/25 11:05	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7638-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7638-1	BH-46 (4)	Solid	02/05/25 08:00	02/05/25 16:15
890-7638-2	BH-212 (4)	Solid	02/05/25 08:05	02/05/25 16:15
890-7638-3	BH-171 (4)	Solid	02/05/25 08:10	02/05/25 16:15
890-7638-4	BH-172 (4)	Solid	02/05/25 08:15	02/05/25 16:15
890-7638-5	BH-173 (4)	Solid	02/05/25 08:20	02/05/25 16:15
890-7638-6	BH-174 (4)	Solid	02/05/25 08:25	02/05/25 16:15
890-7638-7	BH-175 (4)	Solid	02/05/25 08:30	02/05/25 16:15
890-7638-8	BH-176 (4)	Solid	02/05/25 08:35	02/05/25 16:15
890-7638-9	BH-177 (4)	Solid	02/05/25 08:40	02/05/25 16:15
890-7638-10	BH-183 (4)	Solid	02/05/25 08:45	02/05/25 16:15
890-7638-11	BH-184 (3)	Solid	02/05/25 08:50	02/05/25 16:15
890-7638-12	BH-185 (3)	Solid	02/05/25 08:55	02/05/25 16:15
890-7638-13	BH-186 (3)	Solid	02/05/25 09:00	02/05/25 16:15
890-7638-14	BH-187 (3)	Solid	02/05/25 09:05	02/05/25 16:15
890-7638-15	BH-198 (3)	Solid	02/05/25 09:10	02/05/25 16:15
890-7638-16	SW-50	Solid	02/05/25 09:15	02/05/25 16:15
890-7638-17	SW-64	Solid	02/05/25 09:20	02/05/25 16:15
890-7638-18	BH-253 (4)	Solid	02/05/25 09:25	02/05/25 16:15
890-7638-19	BH-248 (3)	Solid	02/05/25 09:30	02/05/25 16:15

Page 1070 of 1592

2/6/2025

890-7638 Chain of Custody

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	HNO3	ICE	# CONTAINERS	FILTERED (Y/N)	8TEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM(Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-46 (4')	2/5/2025	8:00		X			X			X		X												X				
	BH-212 (4')	2/5/2025	8:05		X			X			X		X												X				
	BH-171 (3')	2/5/2025	8:10		X			X			X		X												X				
	BH-172 (3')	2/5/2025	8:15		X			X			X		X												X				
	BH-173 (3')	2/5/2025	8:20		X			X			X		X												X				
	BH-174 (3')	2/5/2025	8:25		X			X			X		X												X				
	BH-175 (3')	2/5/2025	8:30		X			X			X		X												X				
	BH-176 (3')	2/5/2025	8:35		X			X			X		X												X				
	BH-177 (3')	2/5/2025	8:40		X			X			X		X												X				
	BH-183 (3')	2/5/2025	8:45		X			X			X		X												X				

Relinquished by:	Date:	Time:
Received by:	Date: 2/5	Time: 16:15
Relinquished by:	Date:	Time:
Received by:	Date:	Time:
Relinquished by:	Date:	Time:
Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature: 3.8

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 46 of 48

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7638-1
SDG Number: Eddy County NM

Login Number: 7638
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7638-1
SDG Number: Eddy County NM

Login Number: 7638
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 02/05/25 08:55 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/7/2025 4:09:18 PM

JOB DESCRIPTION

ICEMAN SWD
212 C - MD - 03085

JOB NUMBER

890-7643-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

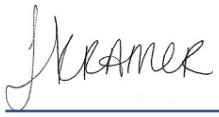
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/7/2025 4:09:18 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 18
QC Sample Results 20
QC Association Summary 25
Lab Chronicle 29
Certification Summary 34
Method Summary 35
Sample Summary 36
Chain of Custody 37
Receipt Checklists 39

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7643-1

Job ID: 890-7643-1 Eurofins Carlsbad

Job Narrative
890-7643-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/6/2025 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 54 (890-7643-1), SW - 55 (890-7643-2), SW - 56 (890-7643-3), SW - 57 (890-7643-4), SW - 58 (890-7643-5), SW - 59 (890-7643-6), SW - 92 (890-7643-7), SW - 93 (890-7643-8), SW - 94 (890-7643-9), SW - 95 (890-7643-10), BH - 249 (2') (890-7643-11), BH - 250 (2') (890-7643-12), BH - 251 (2') (890-7643-13), BH - 252 (2') (890-7643-14) and SW - 80 (890-7643-15).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW - 55 (890-7643-2), SW - 56 (890-7643-3), SW - 57 (890-7643-4), SW - 58 (890-7643-5), SW - 59 (890-7643-6), SW - 92 (890-7643-7), SW - 93 (890-7643-8), SW - 95 (890-7643-10), BH - 249 (2') (890-7643-11), BH - 250 (2') (890-7643-12), BH - 252 (2') (890-7643-14), (890-7643-A-1-F MS) and (890-7643-A-1-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH - 251 (2') (890-7643-13) and SW - 80 (890-7643-15). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102250 and analytical batch 880-102248 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 54

Lab Sample ID: 890-7643-1
Matrix: Solid
Date Collected: 02/06/25 08:00
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/06/25 18:00	02/06/25 23:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/25 18:00	02/06/25 23:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/06/25 23:54*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/06/25 18:00*	*02/06/25 23:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/06/25 23:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/07/25 10:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 10:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 10:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 10:47	1
Total TPH	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/07/25 08:37*	*02/07/25 10:47*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/07/25 08:37*	*02/07/25 10:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.2**		10.1		mg/Kg			02/07/25 15:36	1

Client Sample ID: SW - 55

Lab Sample ID: 890-7643-2
Matrix: Solid
Date Collected: 02/06/25 08:05
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 00:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 00:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/06/25 18:00*	*02/07/25 00:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/06/25 18:00*	*02/07/25 00:15*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 55

Date Collected: 02/06/25 08:05
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/25 00:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/07/25 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 11:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 11:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 11:33	1
Total TPH	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*02/07/25 08:37*	*02/07/25 11:33*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 11:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.4**		9.92		mg/Kg			02/07/25 15:09	1

Client Sample ID: SW - 56

Date Collected: 02/06/25 08:10
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 00:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 00:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 00:35*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/06/25 18:00*	*02/07/25 00:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/25 00:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/07/25 11:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 11:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 56

Date Collected: 02/06/25 08:10
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 11:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 11:48	1
Total TPH	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/07/25 08:37*	*02/07/25 11:48*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 11:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.4**		9.94		mg/Kg			02/07/25 15:18	1

Client Sample ID: SW - 57

Date Collected: 02/06/25 08:15
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 00:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 00:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 00:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 00:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 00:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/06/25 18:00*	*02/07/25 00:56*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 00:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/07/25 00:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/07/25 12:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:02	1
Total TPH	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*02/07/25 08:37*	*02/07/25 12:02*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 12:02*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 57

Lab Sample ID: 890-7643-4
Matrix: Solid
Date Collected: 02/06/25 08:15
Date Received: 02/06/25 16:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.9		10.0		mg/Kg			02/07/25 15:27	1

Client Sample ID: SW - 58

Lab Sample ID: 890-7643-5
Matrix: Solid
Date Collected: 02/06/25 08:20
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 01:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 01:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/06/25 18:00*	*02/07/25 01:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 01:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/25 01:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/07/25 12:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 12:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 12:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 12:18	1
Total TPH	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*02/07/25 08:37*	*02/07/25 12:18*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 12:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		9.94		mg/Kg			02/07/25 15:45	1

Client Sample ID: SW - 59

Lab Sample ID: 890-7643-6
Matrix: Solid
Date Collected: 02/06/25 08:25
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:37	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 59

Date Collected: 02/06/25 08:25
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 01:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 01:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*02/06/25 18:00*	*02/07/25 01:37*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/06/25 18:00*	*02/07/25 01:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/25 01:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/07/25 12:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 12:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 12:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 12:33	1
Total TPH	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*02/07/25 08:37*	*02/07/25 12:33*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 12:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.7**		10.0		mg/Kg			02/07/25 15:54	1

Client Sample ID: SW - 92

Date Collected: 02/06/25 08:30
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 01:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 01:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 01:58*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 01:58*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 92

Lab Sample ID: 890-7643-7
Matrix: Solid
Date Collected: 02/06/25 08:30
Date Received: 02/06/25 16:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/07/25 01:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/07/25 12:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:47	1
Total TPH	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/07/25 08:37*	*02/07/25 12:47*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 12:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.0**		10.1		mg/Kg			02/07/25 16:04	1

Client Sample ID: SW - 93

Lab Sample ID: 890-7643-8
Matrix: Solid
Date Collected: 02/06/25 08:35
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/06/25 18:00	02/07/25 02:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/06/25 18:00	02/07/25 02:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/06/25 18:00	02/07/25 02:18	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/06/25 18:00	02/07/25 02:18	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/06/25 18:00	02/07/25 02:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/06/25 18:00	02/07/25 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/06/25 18:00*	*02/07/25 02:18*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/06/25 18:00*	*02/07/25 02:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/07/25 02:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/07/25 13:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:02	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 93

Lab Sample ID: 890-7643-8
Matrix: Solid
Date Collected: 02/06/25 08:35
Date Received: 02/06/25 16:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:02	1
Total TPH	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/07/25 08:37*	*02/07/25 13:02*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		10.0		mg/Kg			02/07/25 09:36	1

Client Sample ID: SW - 94

Lab Sample ID: 890-7643-9
Matrix: Solid
Date Collected: 02/06/25 08:40
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 02:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 02:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/06/25 18:00*	*02/07/25 02:39*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/06/25 18:00*	*02/07/25 02:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/07/25 02:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/07/25 13:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:17	1
Total TPH	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*02/07/25 08:37*	*02/07/25 13:17*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/07/25 08:37*	*02/07/25 13:17*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 94

Lab Sample ID: 890-7643-9
Matrix: Solid
Date Collected: 02/06/25 08:40
Date Received: 02/06/25 16:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		10.0		mg/Kg			02/07/25 09:54	1

Client Sample ID: SW - 95

Lab Sample ID: 890-7643-10
Matrix: Solid
Date Collected: 02/06/25 08:45
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/06/25 18:00	02/07/25 02:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/25 18:00	02/07/25 02:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 02:59*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/06/25 18:00*	*02/07/25 02:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/07/25 02:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/07/25 13:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:32	1
Total TPH	<49.7	U	49.7		mg/Kg		02/07/25 08:37	02/07/25 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*02/07/25 08:37*	*02/07/25 13:32*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 13:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		10.1		mg/Kg			02/07/25 10:00	1

Client Sample ID: BH - 249 (2')

Lab Sample ID: 890-7643-11
Matrix: Solid
Date Collected: 02/06/25 08:50
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:33	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: BH - 249 (2')

Lab Sample ID: 890-7643-11
Matrix: Solid
Date Collected: 02/06/25 08:50
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 04:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 04:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/06/25 18:00*	*02/07/25 04:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 04:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/25 04:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/07/25 13:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:47	1
Total TPH	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*02/07/25 08:37*	*02/07/25 13:47*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 13:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		9.98		mg/Kg			02/07/25 10:06	1

Client Sample ID: BH - 250 (2')

Lab Sample ID: 890-7643-12
Matrix: Solid
Date Collected: 02/06/25 08:55
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 04:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 04:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/06/25 18:00*	*02/07/25 04:54*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/06/25 18:00*	*02/07/25 04:54*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: BH - 250 (2')

Lab Sample ID: 890-7643-12
Matrix: Solid
Date Collected: 02/06/25 08:55
Date Received: 02/06/25 16:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/25 04:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/07/25 14:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 14:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 14:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 14:03	1
Total TPH	<49.9	U	49.9		mg/Kg		02/07/25 08:37	02/07/25 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*02/07/25 08:37*	*02/07/25 14:03*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 14:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**168**		10.1		mg/Kg			02/07/25 10:13	1

Client Sample ID: BH - 251 (2')

Lab Sample ID: 890-7643-13
Matrix: Solid
Date Collected: 02/06/25 09:00
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 05:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/25 18:00	02/07/25 05:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/06/25 18:00*	*02/07/25 05:14*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/06/25 18:00*	*02/07/25 05:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/07/25 05:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/07/25 14:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 14:18	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: BH - 251 (2')

Lab Sample ID: 890-7643-13
Date Collected: 02/06/25 09:00
Matrix: Solid
Date Received: 02/06/25 16:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 14:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 14:18	1
Total TPH	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 14:18*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 14:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.6**		10.0		mg/Kg			02/07/25 10:31	1

Client Sample ID: BH - 252 (2')

Lab Sample ID: 890-7643-14
Date Collected: 02/06/25 09:05
Matrix: Solid
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/06/25 18:00	02/07/25 05:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/06/25 18:00	02/07/25 05:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/07/25 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/06/25 18:00*	*02/07/25 05:35*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 05:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/07/25 05:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/07/25 14:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:33	1
Total TPH	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*02/07/25 08:37*	*02/07/25 14:33*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 14:33*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: BH - 252 (2')

Lab Sample ID: 890-7643-14
Date Collected: 02/06/25 09:05
Matrix: Solid
Date Received: 02/06/25 16:30

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		10.0		mg/Kg			02/07/25 10:37	1

Client Sample ID: SW - 80

Lab Sample ID: 890-7643-15
Date Collected: 02/06/25 09:10
Matrix: Solid
Date Received: 02/06/25 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 05:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 05:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 05:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 05:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/25 18:00	02/07/25 05:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/25 18:00	02/07/25 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/06/25 18:00*	*02/07/25 05:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/06/25 18:00*	*02/07/25 05:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/25 05:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/07/25 14:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:48	1
Total TPH	<49.8	U	49.8		mg/Kg		02/07/25 08:37	02/07/25 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 14:48*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*02/07/25 08:37*	*02/07/25 14:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.5		10.1		mg/Kg			02/07/25 10:43	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7643-1	SW - 54	98	101
890-7643-1 MS	SW - 54	94	108
890-7643-1 MSD	SW - 54	102	110
890-7643-2	SW - 55	101	100
890-7643-3	SW - 56	98	103
890-7643-4	SW - 57	99	98
890-7643-5	SW - 58	99	98
890-7643-6	SW - 59	97	99
890-7643-7	SW - 92	98	98
890-7643-8	SW - 93	104	101
890-7643-9	SW - 94	105	94
890-7643-10	SW - 95	98	92
890-7643-11	BH - 249 (2')	102	98
890-7643-12	BH - 250 (2')	101	102
890-7643-13	BH - 251 (2')	101	100
890-7643-14	BH - 252 (2')	96	98
890-7643-15	SW - 80	99	98
LCS 880-102235/1-A	Lab Control Sample	97	117
LCSD 880-102235/2-A	Lab Control Sample Dup	96	115
MB 880-102178/5-A	Method Blank	96	93
MB 880-102235/5-A	Method Blank	94	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7643-1	SW - 54	92	81
890-7643-1 MS	SW - 54	78	64 S1-
890-7643-1 MSD	SW - 54	80	66 S1-
890-7643-2	SW - 55	78	67 S1-
890-7643-3	SW - 56	74	65 S1-
890-7643-4	SW - 57	77	66 S1-
890-7643-5	SW - 58	71	62 S1-
890-7643-6	SW - 59	71	61 S1-
890-7643-7	SW - 92	74	63 S1-
890-7643-8	SW - 93	74	63 S1-
890-7643-9	SW - 94	93	79
890-7643-10	SW - 95	76	65 S1-
890-7643-11	BH - 249 (2')	77	66 S1-
890-7643-12	BH - 250 (2')	70	60 S1-
890-7643-13	BH - 251 (2')	69 S1-	60 S1-
890-7643-14	BH - 252 (2')	70	60 S1-
890-7643-15	SW - 80	68 S1-	58 S1-
LCS 880-102250/2-A	Lab Control Sample	88	75

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7643-1
Project/Site: ICEMAN SWD
SDG: 212 C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCSD 880-102250/3-A	Lab Control Sample Dup	93	79								
MB 880-102250/1-A	Method Blank	121	108								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102178/5-A
Matrix: Solid
Analysis Batch: 101988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/25 11:01	02/06/25 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:01	02/06/25 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/06/25 11:01*	*02/06/25 12:39*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/06/25 11:01*	*02/06/25 12:39*	*1*

Lab Sample ID: MB 880-102235/5-A
Matrix: Solid
Analysis Batch: 101988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/25 18:00	02/06/25 23:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/25 18:00	02/06/25 23:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 18:00	02/06/25 23:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*02/06/25 18:00*	*02/06/25 23:33*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/06/25 18:00*	*02/06/25 23:33*	*1*

Lab Sample ID: LCS 880-102235/1-A
Matrix: Solid
Analysis Batch: 101988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1139		mg/Kg		114	70 - 130		
Ethylbenzene			0.100	0.1088		mg/Kg		109	70 - 130		
Toluene			0.100	0.09898		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2258		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1105		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: LCSD 880-102235/2-A
Matrix: Solid
Analysis Batch: 101988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1099		mg/Kg		110	70 - 130	4	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-102235/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101988 — **Prep Batch: 102235**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.1055		mg/Kg		106	70 - 130	3	35
Toluene			0.100	0.09602		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2180		mg/Kg		109	70 - 130	4	35
o-Xylene			0.100	0.1070		mg/Kg		107	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-7643-1 MS — **Client Sample ID: SW - 54**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101988 — **Prep Batch: 102235**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09392		mg/Kg		94	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08418		mg/Kg		84	70 - 130
Toluene	<0.00200	U	0.0998	0.08002		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1729		mg/Kg		87	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08491		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-7643-1 MSD — **Client Sample ID: SW - 54**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101988 — **Prep Batch: 102235**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09302		mg/Kg		93	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0996	0.08253		mg/Kg		83	70 - 130	2	35
Toluene	<0.00200	U	0.0996	0.07876		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1684		mg/Kg		85	70 - 130	3	35
o-Xylene	<0.00200	U	0.0996	0.08374		mg/Kg		84	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102250/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102248 — **Prep Batch: 102250**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 09:22	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-102250/1-A
Matrix: Solid
Analysis Batch: 102248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 09:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 09:22	1
Total TPH	<50.0	U	50.0		mg/Kg		02/07/25 08:37	02/07/25 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*02/07/25 08:37*	*02/07/25 09:22*	*1*
o-Terphenyl	*108*		*70 - 130*	*02/07/25 08:37*	*02/07/25 09:22*	*1*

Lab Sample ID: LCS 880-102250/2-A
Matrix: Solid
Analysis Batch: 102248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102250

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1057		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: LCSD 880-102250/3-A
Matrix: Solid
Analysis Batch: 102248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102250

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1138		mg/Kg		114	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1070		mg/Kg		107	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: 890-7643-1 MS
Matrix: Solid
Analysis Batch: 102248

Client Sample ID: SW - 54
Prep Type: Total/NA
Prep Batch: 102250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	729.5		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	696.8		mg/Kg		70	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7643-1 MS
Matrix: Solid
Analysis Batch: 102248

Client Sample ID: SW - 54
Prep Type: Total/NA
Prep Batch: 102250

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	64	S1-	70 - 130

Lab Sample ID: 890-7643-1 MSD
Matrix: Solid
Analysis Batch: 102248

Client Sample ID: SW - 54
Prep Type: Total/NA
Prep Batch: 102250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	770.5		mg/Kg		77	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	731.7		mg/Kg		73	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	66	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102227/1-A
Matrix: Solid
Analysis Batch: 102265

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/07/25 09:18	1

Lab Sample ID: LCS 880-102227/2-A
Matrix: Solid
Analysis Batch: 102265

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-102227/3-A
Matrix: Solid
Analysis Batch: 102265

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7643-8 MS
Matrix: Solid
Analysis Batch: 102265

Client Sample ID: SW - 93
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	271		250	531.6		mg/Kg		104	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7643-8 MSD — **Client Sample ID: SW - 93**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	271		250	534.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-102226/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/07/25 10:38	1

Lab Sample ID: LCS 880-102226/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.7		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-102226/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102267

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.3		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 890-7641-A-11-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.7		251	257.6		mg/Kg		97	90 - 110

Lab Sample ID: 890-7641-A-11-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 102267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.7		251	254.4		mg/Kg		95	90 - 110	1	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

GC VOA

Analysis Batch: 101988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Total/NA	Solid	8021B	102235
890-7643-2	SW - 55	Total/NA	Solid	8021B	102235
890-7643-3	SW - 56	Total/NA	Solid	8021B	102235
890-7643-4	SW - 57	Total/NA	Solid	8021B	102235
890-7643-5	SW - 58	Total/NA	Solid	8021B	102235
890-7643-6	SW - 59	Total/NA	Solid	8021B	102235
890-7643-7	SW - 92	Total/NA	Solid	8021B	102235
890-7643-8	SW - 93	Total/NA	Solid	8021B	102235
890-7643-9	SW - 94	Total/NA	Solid	8021B	102235
890-7643-10	SW - 95	Total/NA	Solid	8021B	102235
890-7643-11	BH - 249 (2')	Total/NA	Solid	8021B	102235
890-7643-12	BH - 250 (2')	Total/NA	Solid	8021B	102235
890-7643-13	BH - 251 (2')	Total/NA	Solid	8021B	102235
890-7643-14	BH - 252 (2')	Total/NA	Solid	8021B	102235
890-7643-15	SW - 80	Total/NA	Solid	8021B	102235
MB 880-102178/5-A	Method Blank	Total/NA	Solid	8021B	102178
MB 880-102235/5-A	Method Blank	Total/NA	Solid	8021B	102235
LCS 880-102235/1-A	Lab Control Sample	Total/NA	Solid	8021B	102235
LCSD 880-102235/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102235
890-7643-1 MS	SW - 54	Total/NA	Solid	8021B	102235
890-7643-1 MSD	SW - 54	Total/NA	Solid	8021B	102235

Prep Batch: 102178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102178/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 102235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Total/NA	Solid	5035	
890-7643-2	SW - 55	Total/NA	Solid	5035	
890-7643-3	SW - 56	Total/NA	Solid	5035	
890-7643-4	SW - 57	Total/NA	Solid	5035	
890-7643-5	SW - 58	Total/NA	Solid	5035	
890-7643-6	SW - 59	Total/NA	Solid	5035	
890-7643-7	SW - 92	Total/NA	Solid	5035	
890-7643-8	SW - 93	Total/NA	Solid	5035	
890-7643-9	SW - 94	Total/NA	Solid	5035	
890-7643-10	SW - 95	Total/NA	Solid	5035	
890-7643-11	BH - 249 (2')	Total/NA	Solid	5035	
890-7643-12	BH - 250 (2')	Total/NA	Solid	5035	
890-7643-13	BH - 251 (2')	Total/NA	Solid	5035	
890-7643-14	BH - 252 (2')	Total/NA	Solid	5035	
890-7643-15	SW - 80	Total/NA	Solid	5035	
MB 880-102235/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102235/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102235/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7643-1 MS	SW - 54	Total/NA	Solid	5035	
890-7643-1 MSD	SW - 54	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

GC VOA

Analysis Batch: 102295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Total/NA	Solid	Total BTEX	
890-7643-2	SW - 55	Total/NA	Solid	Total BTEX	
890-7643-3	SW - 56	Total/NA	Solid	Total BTEX	
890-7643-4	SW - 57	Total/NA	Solid	Total BTEX	
890-7643-5	SW - 58	Total/NA	Solid	Total BTEX	
890-7643-6	SW - 59	Total/NA	Solid	Total BTEX	
890-7643-7	SW - 92	Total/NA	Solid	Total BTEX	
890-7643-8	SW - 93	Total/NA	Solid	Total BTEX	
890-7643-9	SW - 94	Total/NA	Solid	Total BTEX	
890-7643-10	SW - 95	Total/NA	Solid	Total BTEX	
890-7643-11	BH - 249 (2')	Total/NA	Solid	Total BTEX	
890-7643-12	BH - 250 (2')	Total/NA	Solid	Total BTEX	
890-7643-13	BH - 251 (2')	Total/NA	Solid	Total BTEX	
890-7643-14	BH - 252 (2')	Total/NA	Solid	Total BTEX	
890-7643-15	SW - 80	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 102248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Total/NA	Solid	8015B NM	102250
890-7643-2	SW - 55	Total/NA	Solid	8015B NM	102250
890-7643-3	SW - 56	Total/NA	Solid	8015B NM	102250
890-7643-4	SW - 57	Total/NA	Solid	8015B NM	102250
890-7643-5	SW - 58	Total/NA	Solid	8015B NM	102250
890-7643-6	SW - 59	Total/NA	Solid	8015B NM	102250
890-7643-7	SW - 92	Total/NA	Solid	8015B NM	102250
890-7643-8	SW - 93	Total/NA	Solid	8015B NM	102250
890-7643-9	SW - 94	Total/NA	Solid	8015B NM	102250
890-7643-10	SW - 95	Total/NA	Solid	8015B NM	102250
890-7643-11	BH - 249 (2')	Total/NA	Solid	8015B NM	102250
890-7643-12	BH - 250 (2')	Total/NA	Solid	8015B NM	102250
890-7643-13	BH - 251 (2')	Total/NA	Solid	8015B NM	102250
890-7643-14	BH - 252 (2')	Total/NA	Solid	8015B NM	102250
890-7643-15	SW - 80	Total/NA	Solid	8015B NM	102250
MB 880-102250/1-A	Method Blank	Total/NA	Solid	8015B NM	102250
LCS 880-102250/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102250
LCSD 880-102250/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102250
890-7643-1 MS	SW - 54	Total/NA	Solid	8015B NM	102250
890-7643-1 MSD	SW - 54	Total/NA	Solid	8015B NM	102250

Prep Batch: 102250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Total/NA	Solid	8015NM Prep	
890-7643-2	SW - 55	Total/NA	Solid	8015NM Prep	
890-7643-3	SW - 56	Total/NA	Solid	8015NM Prep	
890-7643-4	SW - 57	Total/NA	Solid	8015NM Prep	
890-7643-5	SW - 58	Total/NA	Solid	8015NM Prep	
890-7643-6	SW - 59	Total/NA	Solid	8015NM Prep	
890-7643-7	SW - 92	Total/NA	Solid	8015NM Prep	
890-7643-8	SW - 93	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

GC Semi VOA (Continued)

Prep Batch: 102250 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-9	SW - 94	Total/NA	Solid	8015NM Prep	
890-7643-10	SW - 95	Total/NA	Solid	8015NM Prep	
890-7643-11	BH - 249 (2')	Total/NA	Solid	8015NM Prep	
890-7643-12	BH - 250 (2')	Total/NA	Solid	8015NM Prep	
890-7643-13	BH - 251 (2')	Total/NA	Solid	8015NM Prep	
890-7643-14	BH - 252 (2')	Total/NA	Solid	8015NM Prep	
890-7643-15	SW - 80	Total/NA	Solid	8015NM Prep	
MB 880-102250/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102250/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102250/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7643-1 MS	SW - 54	Total/NA	Solid	8015NM Prep	
890-7643-1 MSD	SW - 54	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Total/NA	Solid	8015 NM	
890-7643-2	SW - 55	Total/NA	Solid	8015 NM	
890-7643-3	SW - 56	Total/NA	Solid	8015 NM	
890-7643-4	SW - 57	Total/NA	Solid	8015 NM	
890-7643-5	SW - 58	Total/NA	Solid	8015 NM	
890-7643-6	SW - 59	Total/NA	Solid	8015 NM	
890-7643-7	SW - 92	Total/NA	Solid	8015 NM	
890-7643-8	SW - 93	Total/NA	Solid	8015 NM	
890-7643-9	SW - 94	Total/NA	Solid	8015 NM	
890-7643-10	SW - 95	Total/NA	Solid	8015 NM	
890-7643-11	BH - 249 (2')	Total/NA	Solid	8015 NM	
890-7643-12	BH - 250 (2')	Total/NA	Solid	8015 NM	
890-7643-13	BH - 251 (2')	Total/NA	Solid	8015 NM	
890-7643-14	BH - 252 (2')	Total/NA	Solid	8015 NM	
890-7643-15	SW - 80	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Soluble	Solid	DI Leach	
890-7643-2	SW - 55	Soluble	Solid	DI Leach	
890-7643-3	SW - 56	Soluble	Solid	DI Leach	
890-7643-4	SW - 57	Soluble	Solid	DI Leach	
890-7643-5	SW - 58	Soluble	Solid	DI Leach	
890-7643-6	SW - 59	Soluble	Solid	DI Leach	
890-7643-7	SW - 92	Soluble	Solid	DI Leach	
MB 880-102226/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102226/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102226/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7641-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7641-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 102227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-8	SW - 93	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

HPLC/IC (Continued)

Leach Batch: 102227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-9	SW - 94	Soluble	Solid	DI Leach	
890-7643-10	SW - 95	Soluble	Solid	DI Leach	
890-7643-11	BH - 249 (2')	Soluble	Solid	DI Leach	
890-7643-12	BH - 250 (2')	Soluble	Solid	DI Leach	
890-7643-13	BH - 251 (2')	Soluble	Solid	DI Leach	
890-7643-14	BH - 252 (2')	Soluble	Solid	DI Leach	
890-7643-15	SW - 80	Soluble	Solid	DI Leach	
MB 880-102227/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102227/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102227/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7643-8 MS	SW - 93	Soluble	Solid	DI Leach	
890-7643-8 MSD	SW - 93	Soluble	Solid	DI Leach	

Analysis Batch: 102265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-8	SW - 93	Soluble	Solid	300.0	102227
890-7643-9	SW - 94	Soluble	Solid	300.0	102227
890-7643-10	SW - 95	Soluble	Solid	300.0	102227
890-7643-11	BH - 249 (2')	Soluble	Solid	300.0	102227
890-7643-12	BH - 250 (2')	Soluble	Solid	300.0	102227
890-7643-13	BH - 251 (2')	Soluble	Solid	300.0	102227
890-7643-14	BH - 252 (2')	Soluble	Solid	300.0	102227
890-7643-15	SW - 80	Soluble	Solid	300.0	102227
MB 880-102227/1-A	Method Blank	Soluble	Solid	300.0	102227
LCS 880-102227/2-A	Lab Control Sample	Soluble	Solid	300.0	102227
LCSD 880-102227/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102227
890-7643-8 MS	SW - 93	Soluble	Solid	300.0	102227
890-7643-8 MSD	SW - 93	Soluble	Solid	300.0	102227

Analysis Batch: 102267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7643-1	SW - 54	Soluble	Solid	300.0	102226
890-7643-2	SW - 55	Soluble	Solid	300.0	102226
890-7643-3	SW - 56	Soluble	Solid	300.0	102226
890-7643-4	SW - 57	Soluble	Solid	300.0	102226
890-7643-5	SW - 58	Soluble	Solid	300.0	102226
890-7643-6	SW - 59	Soluble	Solid	300.0	102226
890-7643-7	SW - 92	Soluble	Solid	300.0	102226
MB 880-102226/1-A	Method Blank	Soluble	Solid	300.0	102226
LCS 880-102226/2-A	Lab Control Sample	Soluble	Solid	300.0	102226
LCSD 880-102226/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102226
890-7641-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	102226
890-7641-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102226

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 54

Date Collected: 02/06/25 08:00
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/06/25 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/06/25 23:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 10:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 10:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102226	02/07/25 07:45	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102267	02/07/25 15:36	CH	EET MID

Client Sample ID: SW - 55

Date Collected: 02/06/25 08:05
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 00:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 00:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 11:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 11:33	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102226	02/07/25 07:45	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102267	02/07/25 15:09	CH	EET MID

Client Sample ID: SW - 56

Date Collected: 02/06/25 08:10
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 00:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 00:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 11:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 11:48	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102226	02/07/25 07:45	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102267	02/07/25 15:18	CH	EET MID

Client Sample ID: SW - 57

Date Collected: 02/06/25 08:15
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 00:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 00:56	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 57

Date Collected: 02/06/25 08:15
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102321	02/07/25 12:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 12:02	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102226	02/07/25 07:45	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102267	02/07/25 15:27	CH	EET MID

Client Sample ID: SW - 58

Date Collected: 02/06/25 08:20
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 01:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 12:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 12:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102226	02/07/25 07:45	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102267	02/07/25 15:45	CH	EET MID

Client Sample ID: SW - 59

Date Collected: 02/06/25 08:25
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 01:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 12:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 12:33	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102226	02/07/25 07:45	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102267	02/07/25 15:54	CH	EET MID

Client Sample ID: SW - 92

Date Collected: 02/06/25 08:30
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 01:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 01:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 12:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 12:47	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: SW - 92

Date Collected: 02/06/25 08:30
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	102226	02/07/25 07:45	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102267	02/07/25 16:04	CH	EET MID

Client Sample ID: SW - 93

Date Collected: 02/06/25 08:35
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 02:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 02:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 13:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 13:02	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 09:36	CH	EET MID

Client Sample ID: SW - 94

Date Collected: 02/06/25 08:40
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 02:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 02:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 13:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 13:17	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 09:54	CH	EET MID

Client Sample ID: SW - 95

Date Collected: 02/06/25 08:45
Date Received: 02/06/25 16:30

Lab Sample ID: 890-7643-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 02:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 02:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 13:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 13:32	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 10:00	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: BH - 249 (2')

Lab Sample ID: 890-7643-11
Matrix: Solid
Date Collected: 02/06/25 08:50
Date Received: 02/06/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 04:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 13:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 13:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 10:06	CH	EET MID

Client Sample ID: BH - 250 (2')

Lab Sample ID: 890-7643-12
Matrix: Solid
Date Collected: 02/06/25 08:55
Date Received: 02/06/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 04:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 14:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 14:03	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 10:13	CH	EET MID

Client Sample ID: BH - 251 (2')

Lab Sample ID: 890-7643-13
Matrix: Solid
Date Collected: 02/06/25 09:00
Date Received: 02/06/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 05:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 14:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 14:18	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 10:31	CH	EET MID

Client Sample ID: BH - 252 (2')

Lab Sample ID: 890-7643-14
Matrix: Solid
Date Collected: 02/06/25 09:05
Date Received: 02/06/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 05:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 05:35	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Client Sample ID: BH - 252 (2')

Lab Sample ID: 890-7643-14
Matrix: Solid
Date Collected: 02/06/25 09:05
Date Received: 02/06/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102321	02/07/25 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 14:33	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 10:37	CH	EET MID

Client Sample ID: SW - 80

Lab Sample ID: 890-7643-15
Matrix: Solid
Date Collected: 02/06/25 09:10
Date Received: 02/06/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102235	02/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101988	02/07/25 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102295	02/07/25 05:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102321	02/07/25 14:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 14:48	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 10:43	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7643-1
SDG: 212 C - MD - 03085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7643-1	SW - 54	Solid	02/06/25 08:00	02/06/25 16:30
890-7643-2	SW - 55	Solid	02/06/25 08:05	02/06/25 16:30
890-7643-3	SW - 56	Solid	02/06/25 08:10	02/06/25 16:30
890-7643-4	SW - 57	Solid	02/06/25 08:15	02/06/25 16:30
890-7643-5	SW - 58	Solid	02/06/25 08:20	02/06/25 16:30
890-7643-6	SW - 59	Solid	02/06/25 08:25	02/06/25 16:30
890-7643-7	SW - 92	Solid	02/06/25 08:30	02/06/25 16:30
890-7643-8	SW - 93	Solid	02/06/25 08:35	02/06/25 16:30
890-7643-9	SW - 94	Solid	02/06/25 08:40	02/06/25 16:30
890-7643-10	SW - 95	Solid	02/06/25 08:45	02/06/25 16:30
890-7643-11	BH - 249 (2')	Solid	02/06/25 08:50	02/06/25 16:30
890-7643-12	BH - 250 (2')	Solid	02/06/25 08:55	02/06/25 16:30
890-7643-13	BH - 251 (2')	Solid	02/06/25 09:00	02/06/25 16:30
890-7643-14	BH - 252 (2')	Solid	02/06/25 09:05	02/06/25 16:30
890-7643-15	SW - 80	Solid	02/06/25 09:10	02/06/25 16:30

Page 1109 of 1592

Analysis Request of Chain of Custody Record

2/7/2025

Tetra Tech, Inc.

901 W
Midl
Tel
Fax

890-7643 Chain of Custody

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	SW-54	2/6/2025	8:00		X			X			X		X												X				
	SW-55	2/6/2025	8:05		X			X			X		X												X				
	SW-56	2/6/2025	8:10		X			X			X		X												X				
	SW-57	2/6/2025	8:15		X			X			X		X												X				
	SW-58	2/6/2025	8:20		X			X			X		X												X				
	SW-59	2/6/2025	8:25		X			X			X		X												X				
	SW-92	2/6/2025	8:30		X			X			X		X												X				
	SW-93	2/6/2025	8:35		X			X			X		X												X				
	SW-94	2/6/2025	8:40		X			X			X		X												X				
	SW-95	2/6/2025	8:45		X			X			X		X												X				

Relinquished by:	Date: 2.6.2025	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 2/6 Time: 1630

LAB USE ONLY

Sample Temperature
TNMCC
4.2
4.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 37 of 40

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1110 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	HNO3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-249 (2')	2/6/2025	8:50		X			X			X			X												X						
	BH-250 (2')	2/6/2025	8:55		X			X			X			X												X						
	BH-251 (3')	2/6/2025	9:00		X			X			X			X												X						
	BH-252 (3')	2/6/2025	9:05		X			X			X			X												X						
	SW-80	2/6/2025	9:10		X			X			X			X												X						

Relinquished by:	Date: 2.6.2025	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
~~Relinquished by:~~	Date:	Time:	Received by:

Received by: Date: 2/6 Time: 1630

LAB USE ONLY

Sample Temperature
TNMCOM
4.2
4.0

REMARKS:

- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] ~~Rush Charges Authorized~~
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7643-1
SDG Number: 212 C - MD - 03085

Login Number: 7643
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7643-1
SDG Number: 212 C - MD - 03085

Login Number: 7643
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 02/07/25 08:21 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/11/2025 4:39:00 PM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7651-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

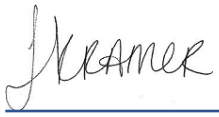
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/11/2025 4:39:00 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7651-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 10
QC Sample Results 11
QC Association Summary 15
Lab Chronicle 17
Certification Summary 19
Method Summary 20
Sample Summary 21
Chain of Custody 22
Receipt Checklists 23

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7651-1

Job ID: 890-7651-1 Eurofins Carlsbad

Job Narrative
890-7651-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/7/2025 2:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-188 (4) (890-7651-1), BH-189 (4) (890-7651-2), BH-190 (4) (890-7651-3), BH-191 (4) (890-7651-4) and BH-192 (4) (890-7651-5).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-191 (4) (890-7651-4) and BH-192 (4) (890-7651-5). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102337 and analytical batch 880-102343 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: BH-188 (4) (890-7651-1), BH-189 (4) (890-7651-2), BH-190 (4) (890-7651-3), BH-191 (4) (890-7651-4), BH-192 (4) (890-7651-5), (880-54183-A-1-A), (880-54183-A-1-B MS) and (880-54183-A-1-C MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Client Sample ID: BH-188 (4)

Lab Sample ID: 890-7651-1

Date Collected: 02/07/25 08:00
Matrix: Solid
Date Received: 02/07/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 11:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 11:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 11:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 11:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 11:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/07/25 15:49*	*02/10/25 11:44*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/07/25 15:49*	*02/10/25 11:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 11:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/11/25 11:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 11:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 11:17	1
Total TPH	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*02/09/25 21:20*	*02/11/25 11:17*	*1*
o-Terphenyl	*122*		*70 - 130*	*02/09/25 21:20*	*02/11/25 11:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.4**		10.0		mg/Kg			02/09/25 15:36	1

Client Sample ID: BH-189 (4)

Lab Sample ID: 890-7651-2

Date Collected: 02/07/25 08:05
Matrix: Solid
Date Received: 02/07/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 12:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 12:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 12:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 12:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 12:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*02/07/25 15:49*	*02/10/25 12:05*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/07/25 15:49*	*02/10/25 12:05*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Client Sample ID: BH-189 (4)

Lab Sample ID: 890-7651-2
Date Collected: 02/07/25 08:05
Matrix: Solid
Date Received: 02/07/25 14:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 12:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/11/25 12:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:18	1
Total TPH	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*02/09/25 21:20*	*02/11/25 12:18*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/09/25 21:20*	*02/11/25 12:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.5**		9.92		mg/Kg			02/09/25 15:42	1

Client Sample ID: BH-190 (4)

Lab Sample ID: 890-7651-3
Date Collected: 02/07/25 08:10
Matrix: Solid
Date Received: 02/07/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 12:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 12:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/07/25 15:49*	*02/10/25 12:25*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/07/25 15:49*	*02/10/25 12:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/25 12:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/11/25 12:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:39	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Client Sample ID: BH-190 (4)

Lab Sample ID: 890-7651-3
Matrix: Solid
Date Collected: 02/07/25 08:10
Date Received: 02/07/25 14:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:39	1
Total TPH	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*02/09/25 21:20*	*02/11/25 12:39*	*1*
o-Terphenyl	*124*		*70 - 130*	*02/09/25 21:20*	*02/11/25 12:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.0**		9.90		mg/Kg			02/09/25 15:48	1

Client Sample ID: BH-191 (4)

Lab Sample ID: 890-7651-4
Matrix: Solid
Date Collected: 02/07/25 08:15
Date Received: 02/07/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/07/25 15:49	02/10/25 12:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/07/25 15:49	02/10/25 12:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/07/25 15:49	02/10/25 12:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/07/25 15:49	02/10/25 12:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/07/25 15:49	02/10/25 12:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/07/25 15:49	02/10/25 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/07/25 15:49*	*02/10/25 12:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/07/25 15:49*	*02/10/25 12:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/10/25 12:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/11/25 12:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/09/25 21:20	02/11/25 12:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/25 21:20	02/11/25 12:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/25 21:20	02/11/25 12:59	1
Total TPH	<49.9	U	49.9		mg/Kg		02/09/25 21:20	02/11/25 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/09/25 21:20*	*02/11/25 12:59*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*02/09/25 21:20*	*02/11/25 12:59*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Client Sample ID: BH-191 (4)

Lab Sample ID: 890-7651-4
Matrix: Solid
Date Collected: 02/07/25 08:15
Date Received: 02/07/25 14:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.5		9.98		mg/Kg			02/09/25 15:54	1

Client Sample ID: BH-192 (4)

Lab Sample ID: 890-7651-5
Matrix: Solid
Date Collected: 02/07/25 08:20
Date Received: 02/07/25 14:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/07/25 15:49	02/10/25 13:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/07/25 15:49	02/10/25 13:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*02/07/25 15:49*	*02/10/25 13:06*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/07/25 15:49*	*02/10/25 13:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/10/25 13:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/11/25 13:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 13:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 13:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 13:20	1
Total TPH	<49.8	U	49.8		mg/Kg		02/09/25 21:20	02/11/25 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*02/09/25 21:20*	*02/11/25 13:20*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*02/09/25 21:20*	*02/11/25 13:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		10.1		mg/Kg			02/09/25 16:13	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		BFB1	DFBZ1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-7651-1	BH-188 (4)	127	99								
890-7651-1 MS	BH-188 (4)	113	101								
890-7651-1 MSD	BH-188 (4)	101	102								
890-7651-2	BH-189 (4)	117	100								
890-7651-3	BH-190 (4)	119	99								
890-7651-4	BH-191 (4)	120	100								
890-7651-5	BH-192 (4)	125	99								
LCS 880-102328/1-A	Lab Control Sample	105	121								
LCSD 880-102328/2-A	Lab Control Sample Dup	106	111								
MB 880-102328/5-A	Method Blank	110	90								

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-7651-1	BH-188 (4)	108	122								
890-7651-1 MS	BH-188 (4)	121	127								
890-7651-1 MSD	BH-188 (4)	105	109								
890-7651-2	BH-189 (4)	94	106								
890-7651-3	BH-190 (4)	110	124								
890-7651-4	BH-191 (4)	115	132 S1+								
890-7651-5	BH-192 (4)	125	141 S1+								
LCS 880-102350/2-A	Lab Control Sample	107	119								
LCSD 880-102350/3-A	Lab Control Sample Dup	108	114								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID										
MB 880-102350/1-A	Method Blank										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102328/5-A
Matrix: Solid
Analysis Batch: 102361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/07/25 15:49*	*02/10/25 11:23*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/07/25 15:49*	*02/10/25 11:23*	*1*

Lab Sample ID: LCS 880-102328/1-A
Matrix: Solid
Analysis Batch: 102361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102328

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1151		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.09741		mg/Kg		97	70 - 130		
Toluene			0.100	0.1106		mg/Kg		111	70 - 130		
m-Xylene & p-Xylene			0.200	0.2058		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1041		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

Lab Sample ID: LCSD 880-102328/2-A
Matrix: Solid
Analysis Batch: 102361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102328

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1143		mg/Kg		114	70 - 130	1	35
Ethylbenzene			0.100	0.1007		mg/Kg		101	70 - 130	3	35
Toluene			0.100	0.1145		mg/Kg		114	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2131		mg/Kg		107	70 - 130	3	35
o-Xylene			0.100	0.1070		mg/Kg		107	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 890-7651-1 MS
Matrix: Solid
Analysis Batch: 102361

Client Sample ID: BH-188 (4)
Prep Type: Total/NA
Prep Batch: 102328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.07440		mg/Kg		75	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.08019		mg/Kg		80	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7651-1 MS
Matrix: Solid
Analysis Batch: 102361

Client Sample ID: BH-188 (4)
Prep Type: Total/NA
Prep Batch: 102328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U	0.0998	0.08108		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1678		mg/Kg		84	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08499		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-7651-1 MSD
Matrix: Solid
Analysis Batch: 102361

Client Sample ID: BH-188 (4)
Prep Type: Total/NA
Prep Batch: 102328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.07791		mg/Kg		78	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0996	0.07349		mg/Kg		74	70 - 130	9	35
Toluene	<0.00199	U	0.0996	0.07822		mg/Kg		79	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1519		mg/Kg		76	70 - 130	10	35
o-Xylene	<0.00199	U	0.0996	0.07791		mg/Kg		78	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102350/1-A
Matrix: Solid
Analysis Batch: 102419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 08:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 08:42	1
Total TPH	<50.0	U	50.0		mg/Kg		02/09/25 21:20	02/11/25 08:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane				*02/09/25 21:20*	*02/11/25 08:42*	*1*
o-Terphenyl				*02/09/25 21:20*	*02/11/25 08:42*	*1*

Lab Sample ID: LCS 880-102350/2-A
Matrix: Solid
Analysis Batch: 102419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1044		mg/Kg		104	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-102350/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102419 — **Prep Batch: 102350**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1115		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: LCSD 880-102350/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102419 — **Prep Batch: 102350**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1059		mg/Kg		106	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1149		mg/Kg		115	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Lab Sample ID: 890-7651-1 MS — **Client Sample ID: BH-188 (4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102419 — **Prep Batch: 102350**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1243		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1002		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*121*		*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Lab Sample ID: 890-7651-1 MSD — **Client Sample ID: BH-188 (4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102419 — **Prep Batch: 102350**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1017		mg/Kg		97	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	862.2		mg/Kg		84	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102337/1-A
Matrix: Solid
Analysis Batch: 102343

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/09/25 14:59	1

Lab Sample ID: LCS 880-102337/2-A
Matrix: Solid
Analysis Batch: 102343

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-102337/3-A
Matrix: Solid
Analysis Batch: 102343

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-54183-A-1-B MS
Matrix: Solid
Analysis Batch: 102343

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8680	F1	4970	14370	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-54183-A-1-C MSD
Matrix: Solid
Analysis Batch: 102343

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8680	F1	4970	15020	F1	mg/Kg		128	90 - 110	4	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

GC VOA

Prep Batch: 102328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Total/NA	Solid	5035	
890-7651-2	BH-189 (4)	Total/NA	Solid	5035	
890-7651-3	BH-190 (4)	Total/NA	Solid	5035	
890-7651-4	BH-191 (4)	Total/NA	Solid	5035	
890-7651-5	BH-192 (4)	Total/NA	Solid	5035	
MB 880-102328/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102328/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102328/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7651-1 MS	BH-188 (4)	Total/NA	Solid	5035	
890-7651-1 MSD	BH-188 (4)	Total/NA	Solid	5035	

Analysis Batch: 102361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Total/NA	Solid	8021B	102328
890-7651-2	BH-189 (4)	Total/NA	Solid	8021B	102328
890-7651-3	BH-190 (4)	Total/NA	Solid	8021B	102328
890-7651-4	BH-191 (4)	Total/NA	Solid	8021B	102328
890-7651-5	BH-192 (4)	Total/NA	Solid	8021B	102328
MB 880-102328/5-A	Method Blank	Total/NA	Solid	8021B	102328
LCS 880-102328/1-A	Lab Control Sample	Total/NA	Solid	8021B	102328
LCSD 880-102328/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102328
890-7651-1 MS	BH-188 (4)	Total/NA	Solid	8021B	102328
890-7651-1 MSD	BH-188 (4)	Total/NA	Solid	8021B	102328

Analysis Batch: 102383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Total/NA	Solid	Total BTEX	
890-7651-2	BH-189 (4)	Total/NA	Solid	Total BTEX	
890-7651-3	BH-190 (4)	Total/NA	Solid	Total BTEX	
890-7651-4	BH-191 (4)	Total/NA	Solid	Total BTEX	
890-7651-5	BH-192 (4)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Total/NA	Solid	8015NM Prep	
890-7651-2	BH-189 (4)	Total/NA	Solid	8015NM Prep	
890-7651-3	BH-190 (4)	Total/NA	Solid	8015NM Prep	
890-7651-4	BH-191 (4)	Total/NA	Solid	8015NM Prep	
890-7651-5	BH-192 (4)	Total/NA	Solid	8015NM Prep	
MB 880-102350/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102350/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7651-1 MS	BH-188 (4)	Total/NA	Solid	8015NM Prep	
890-7651-1 MSD	BH-188 (4)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Total/NA	Solid	8015B NM	102350
890-7651-2	BH-189 (4)	Total/NA	Solid	8015B NM	102350

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 102419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-3	BH-190 (4)	Total/NA	Solid	8015B NM	102350
890-7651-4	BH-191 (4)	Total/NA	Solid	8015B NM	102350
890-7651-5	BH-192 (4)	Total/NA	Solid	8015B NM	102350
MB 880-102350/1-A	Method Blank	Total/NA	Solid	8015B NM	102350
LCS 880-102350/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102350
LCSD 880-102350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102350
890-7651-1 MS	BH-188 (4)	Total/NA	Solid	8015B NM	102350
890-7651-1 MSD	BH-188 (4)	Total/NA	Solid	8015B NM	102350

Analysis Batch: 102530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Total/NA	Solid	8015 NM	
890-7651-2	BH-189 (4)	Total/NA	Solid	8015 NM	
890-7651-3	BH-190 (4)	Total/NA	Solid	8015 NM	
890-7651-4	BH-191 (4)	Total/NA	Solid	8015 NM	
890-7651-5	BH-192 (4)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Soluble	Solid	DI Leach	
890-7651-2	BH-189 (4)	Soluble	Solid	DI Leach	
890-7651-3	BH-190 (4)	Soluble	Solid	DI Leach	
890-7651-4	BH-191 (4)	Soluble	Solid	DI Leach	
890-7651-5	BH-192 (4)	Soluble	Solid	DI Leach	
MB 880-102337/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102337/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102337/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54183-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-54183-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7651-1	BH-188 (4)	Soluble	Solid	300.0	102337
890-7651-2	BH-189 (4)	Soluble	Solid	300.0	102337
890-7651-3	BH-190 (4)	Soluble	Solid	300.0	102337
890-7651-4	BH-191 (4)	Soluble	Solid	300.0	102337
890-7651-5	BH-192 (4)	Soluble	Solid	300.0	102337
MB 880-102337/1-A	Method Blank	Soluble	Solid	300.0	102337
LCS 880-102337/2-A	Lab Control Sample	Soluble	Solid	300.0	102337
LCSD 880-102337/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102337
880-54183-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	102337
880-54183-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102337

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Client Sample ID: BH-188 (4)

Lab Sample ID: 890-7651-1
Matrix: Solid
Date Collected: 02/07/25 08:00
Date Received: 02/07/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 11:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102383	02/10/25 11:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102530	02/11/25 11:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102350	02/09/25 21:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102419	02/11/25 11:17	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102337	02/07/25 17:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102343	02/09/25 15:36	SMC	EET MID

Client Sample ID: BH-189 (4)

Lab Sample ID: 890-7651-2
Matrix: Solid
Date Collected: 02/07/25 08:05
Date Received: 02/07/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 12:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102383	02/10/25 12:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102530	02/11/25 12:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102350	02/09/25 21:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102419	02/11/25 12:18	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102337	02/07/25 17:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102343	02/09/25 15:42	SMC	EET MID

Client Sample ID: BH-190 (4)

Lab Sample ID: 890-7651-3
Matrix: Solid
Date Collected: 02/07/25 08:10
Date Received: 02/07/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 12:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102383	02/10/25 12:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102530	02/11/25 12:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102350	02/09/25 21:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102419	02/11/25 12:39	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	102337	02/07/25 17:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102343	02/09/25 15:48	SMC	EET MID

Client Sample ID: BH-191 (4)

Lab Sample ID: 890-7651-4
Matrix: Solid
Date Collected: 02/07/25 08:15
Date Received: 02/07/25 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102383	02/10/25 12:46	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Client Sample ID: BH-191 (4)

Date Collected: 02/07/25 08:15
Date Received: 02/07/25 14:07

Lab Sample ID: 890-7651-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102530	02/11/25 12:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102350	02/09/25 21:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102419	02/11/25 12:59	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102337	02/07/25 17:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102343	02/09/25 15:54	SMC	EET MID

Client Sample ID: BH-192 (4)

Date Collected: 02/07/25 08:20
Date Received: 02/07/25 14:07

Lab Sample ID: 890-7651-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 13:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102383	02/10/25 13:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102530	02/11/25 13:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102350	02/09/25 21:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102419	02/11/25 13:20	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102337	02/07/25 17:23	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102343	02/09/25 16:13	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7651-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7651-1	BH-188 (4)	Solid	02/07/25 08:00	02/07/25 14:07
890-7651-2	BH-189 (4)	Solid	02/07/25 08:05	02/07/25 14:07
890-7651-3	BH-190 (4)	Solid	02/07/25 08:10	02/07/25 14:07
890-7651-4	BH-191 (4)	Solid	02/07/25 08:15	02/07/25 14:07
890-7651-5	BH-192 (4)	Solid	02/07/25 08:20	02/07/25 14:07

Page 1134 of 1592

Analysis Request of Chain of Custody Record

890-7651 Chain of Custody

1 of 1

2/11/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	~~BH-188 (4')~~	2/7/2025	8:00		X				X				X		X												X								
	BH-189 (4')	2/7/2025	8:05		X				X				X		X												X								
	BH-190 (4')	2/7/2025	8:10		X				X				X		X												X								
	BH-191 (4')	2/7/2025	8:15		X				X				X		X												X								
	BH-192 (4')	2/7/2025	8:20		X				X				X		X												X								

Relinquished by: Date: 2.7.2025 Time:

Received by: Date: Time: 14:07 2/7

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 6.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Page 22 of 24

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7651-1
SDG Number: Eddy County NM

Login Number: 7651
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7651-1
SDG Number: Eddy County NM

Login Number: 7651
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/09/25 10:34 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 1/2/2025 1:43:43 PM

JOB DESCRIPTION

ICEMAN SWD
212C - MD - 03085

JOB NUMBER

890-7522-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

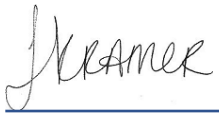
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/2/2025 1:43:43 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7522-1
SDG: 212C - MD - 03085

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 29
QC Sample Results 31
QC Association Summary 40
Lab Chronicle 47
Certification Summary 56
Method Summary 57
Sample Summary 58
Chain of Custody 59
Receipt Checklists 65

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7522-1

Job ID: 890-7522-1 Eurofins Carlsbad

Job Narrative
890-7522-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/27/2024 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions
The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): BH - 181 (3') (890-7522-1), BH - 179 (4') (890-7522-2), BH - 178 (4') (890-7522-3), BH - 182 (3') (890-7522-4), BH - 180 (3') (890-7522-5), BH - 202 (3') (890-7522-6), BH - 196 (3') (890-7522-7), BH - 198 (3') (890-7522-8), BH - 199 (3') (890-7522-9), BH - 200 (3') (890-7522-10), BH - 201 (3') (890-7522-11), BH - 214 (3') (890-7522-12), BH - 213 (3') (890-7522-13), BH - 212 (3') (890-7522-14), BH - 215 (3') (890-7522-15), BH - 205 (3') (890-7522-16), BH - 206 (3') (890-7522-17), BH - 204 (3') (890-7522-18), BH - 208 (3') (890-7522-19), BH - 210 (3') (890-7522-20), BH - 211 (3') (890-7522-21), BH - 207 (3') (890-7522-22), BH - 209 (3') (890-7522-23), BH - 196 (3') (890-7522-24), BH - 197 (3') (890-7522-25), BH - 193 (3') (890-7522-26), BH - 194 (3') (890-7522-27), BH - 195 (3') (890-7522-28) and BH - 203 (3') (890-7522-29)

The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 181 (3') (890-7522-1), BH - 179 (4') (890-7522-2), BH - 178 (4') (890-7522-3), BH - 182 (3') (890-7522-4), BH - 180 (3') (890-7522-5), BH - 202 (3') (890-7522-6), BH - 196 (3') (890-7522-7), BH - 198 (3') (890-7522-8), BH - 199 (3') (890-7522-9), BH - 200 (3') (890-7522-10), BH - 201 (3') (890-7522-11), BH - 214 (3') (890-7522-12), BH - 213 (3') (890-7522-13), BH - 212 (3') (890-7522-14), BH - 215 (3') (890-7522-15), BH - 205 (3') (890-7522-16), BH - 206 (3') (890-7522-17), BH - 204 (3') (890-7522-18), BH - 208 (3') (890-7522-19), BH - 210 (3') (890-7522-20), BH - 211 (3') (890-7522-21), BH - 207 (3') (890-7522-22), BH - 209 (3') (890-7522-23), BH - 196 (3') (890-7522-24), BH - 197 (3') (890-7522-25), BH - 193 (3') (890-7522-26), BH - 194 (3') (890-7522-27), BH - 195 (3') (890-7522-28) and BH - 203 (3') (890-7522-29).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-99125/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-99125 and analytical batch 880-99166 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99125 and analytical batch 880-99166 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: BH - 200 (3') (890-7522-10), (LCS 880-99158/2-A), (880-52702-A-1-B), (880-52702-A-1-C MS) and (880-52702-A-1-D MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH - 196 (3') (890-7522-7). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7522-1

Job ID: 890-7522-1 (Continued) Eurofins Carlsbad

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99158 and analytical batch 880-99168 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99126 and analytical batch 880-99162 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH - 210 (3') (890-7522-20). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99138 and analytical batch 880-99157 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: BH - 200 (3') (890-7522-10), BH - 201 (3') (890-7522-11), BH - 214 (3') (890-7522-12), BH - 213 (3') (890-7522-13), BH - 212 (3') (890-7522-14), BH - 215 (3') (890-7522-15), BH - 205 (3') (890-7522-16), BH - 206 (3') (890-7522-17), BH - 204 (3') (890-7522-18), BH - 208 (3') (890-7522-19), (890-7522-A-10-C MS) and (890-7522-A-10-D MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99138 and analytical batch 880-99157 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: BH - 210 (3') (890-7522-20), BH - 211 (3') (890-7522-21), BH - 207 (3') (890-7522-22), BH - 209 (3') (890-7522-23), BH - 197 (3') (890-7522-25), BH - 193 (3') (890-7522-26), BH - 194 (3') (890-7522-27), BH - 195 (3') (890-7522-28), BH - 203 (3') (890-7522-29), (890-7522-A-20-C MS) and (890-7522-A-20-D MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 181 (3')

Lab Sample ID: 890-7522-1
Matrix: Solid
Date Collected: 12/27/24 11:00
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/31/24 08:49	12/31/24 13:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/31/24 08:49	12/31/24 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:49*	*12/31/24 13:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/31/24 13:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:10*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		10.0		mg/Kg			12/31/24 12:57	1

Client Sample ID: BH - 179 (4')

Lab Sample ID: 890-7522-2
Matrix: Solid
Date Collected: 12/27/24 11:05
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:16*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 179 (4')

Lab Sample ID: 890-7522-2
Matrix: Solid
Date Collected: 12/27/24 11:05
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 14:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:26*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.3**		9.94		mg/Kg			12/31/24 13:03	1

Client Sample ID: BH - 178 (4')

Lab Sample ID: 890-7522-3
Matrix: Solid
Date Collected: 12/27/24 11:10
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 14:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 178 (4')

Lab Sample ID: 890-7522-3
Matrix: Solid
Date Collected: 12/27/24 11:10
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:18	12/31/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:41*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.96		mg/Kg			12/31/24 13:09	1

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Matrix: Solid
Date Collected: 12/27/24 11:15
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 14:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 14:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:55*	*1*
o-Terphenyl	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 14:55*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Matrix: Solid
Date Collected: 12/27/24 11:15
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		10.1		mg/Kg			12/31/24 13:27	1

Client Sample ID: BH - 180 (3')

Lab Sample ID: 890-7522-5
Matrix: Solid
Date Collected: 12/27/24 11:20
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 16:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:31*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:10*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		10.0		mg/Kg			12/31/24 13:33	1

Client Sample ID: BH - 202 (3')

Lab Sample ID: 890-7522-6
Matrix: Solid
Date Collected: 12/27/24 11:25
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 202 (3')

Lab Sample ID: 890-7522-6
Date Collected: 12/27/24 11:25
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 16:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:52*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:49*	*12/31/24 16:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 15:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:18	12/31/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:25*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:18*	*12/31/24 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**234**		10.0		mg/Kg			12/31/24 13:50	1

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7
Date Collected: 12/27/24 11:30
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 17:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:12*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7
Matrix: Solid
Date Collected: 12/27/24 11:30
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1
Total TPH	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:10*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		9.96		mg/Kg			12/31/24 13:56	1

Client Sample ID: BH - 199 (3')

Lab Sample ID: 890-7522-9
Matrix: Solid
Date Collected: 12/27/24 11:40
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/31/24 08:49	12/31/24 17:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/31/24 08:49	12/31/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/31/24 17:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 14:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 199 (3')

Lab Sample ID: 890-7522-9
Matrix: Solid
Date Collected: 12/27/24 11:40
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1
Total TPH	<49.9	U	49.9		mg/Kg		12/31/24 09:50	12/31/24 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:26*	*1*
o-Terphenyl	*70*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.94		mg/Kg			12/31/24 14:02	1

Client Sample ID: BH - 200 (3')

Lab Sample ID: 890-7522-10
Matrix: Solid
Date Collected: 12/27/24 11:45
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 17:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:53*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 17:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 14:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 09:50	12/31/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 14:41*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*12/31/24 09:50*	*12/31/24 14:41*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 200 (3')

Lab Sample ID: 890-7522-10
Matrix: Solid
Date Collected: 12/27/24 11:45
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147	F1	10.1		mg/Kg			12/31/24 15:13	1

Client Sample ID: BH - 201 (3')

Lab Sample ID: 890-7522-11
Matrix: Solid
Date Collected: 12/27/24 11:50
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:49	12/31/24 18:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:49	12/31/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:14*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 18:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 14:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1
Total TPH	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:55*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/31/24 09:50*	*12/31/24 14:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.7		10.1		mg/Kg			12/31/24 15:31	1

Client Sample ID: BH - 214 (3')

Lab Sample ID: 890-7522-12
Matrix: Solid
Date Collected: 12/27/24 11:55
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 214 (3')

Lab Sample ID: 890-7522-12
Matrix: Solid
Date Collected: 12/27/24 11:55
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:34*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1
Total TPH	<49.8	U	49.8		mg/Kg		12/31/24 09:50	12/31/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:10*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		10.0		mg/Kg			12/31/24 15:37	1

Client Sample ID: BH - 213 (3')

Lab Sample ID: 890-7522-13
Matrix: Solid
Date Collected: 12/27/24 12:00
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:49	12/31/24 18:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:49	12/31/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 18:55*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 213 (3')

Lab Sample ID: 890-7522-13
Matrix: Solid
Date Collected: 12/27/24 12:00
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 15:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1
Total TPH	<49.7	U	49.7		mg/Kg		12/31/24 09:50	12/31/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:25*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/31/24 09:50*	*12/31/24 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**176**		10.1		mg/Kg			12/31/24 15:43	1

Client Sample ID: BH - 212 (3')

Lab Sample ID: 890-7522-14
Matrix: Solid
Date Collected: 12/27/24 12:05
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 19:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/31/24 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**90.2**		50.0		mg/Kg			12/31/24 17:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 212 (3')

Lab Sample ID: 890-7522-14
Matrix: Solid
Date Collected: 12/27/24 12:05
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**90.2**	**F1**	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1
Total TPH	**90.2**	**F1**	50.0		mg/Kg		12/30/24 19:21	12/31/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 17:48*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/30/24 19:21*	*12/31/24 17:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**807**		10.1		mg/Kg			12/31/24 15:48	1

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15
Matrix: Solid
Date Collected: 12/27/24 12:10
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:49	12/31/24 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/31/24 08:49*	*12/31/24 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 19:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 18:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:35*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:35*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15
Matrix: Solid
Date Collected: 12/27/24 12:10
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		10.1		mg/Kg			12/31/24 16:06	1

Client Sample ID: BH - 205 (3')

Lab Sample ID: 890-7522-16
Matrix: Solid
Date Collected: 12/27/24 12:15
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 13:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:39*	*12/31/24 13:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 13:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 18:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:52*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 18:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		10.0		mg/Kg			12/31/24 16:12	1

Client Sample ID: BH - 206 (3')

Lab Sample ID: 890-7522-17
Matrix: Solid
Date Collected: 12/27/24 12:20
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 206 (3')

Lab Sample ID: 890-7522-17
Date Collected: 12/27/24 12:20
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:12*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 19:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:08*	*1*
o-Terphenyl	*76*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.7**		10.1		mg/Kg			12/31/24 16:18	1

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Date Collected: 12/27/24 12:25
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 14:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:32*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Matrix: Solid
Date Collected: 12/27/24 12:25
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 14:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 19:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:25*	*1*
o-Terphenyl	*73*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		10.0		mg/Kg			12/31/24 16:24	1

Client Sample ID: BH - 208 (3')

Lab Sample ID: 890-7522-19
Matrix: Solid
Date Collected: 12/27/24 12:30
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 14:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:53*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 14:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 14:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 19:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 208 (3')

Lab Sample ID: 890-7522-19
Matrix: Solid
Date Collected: 12/27/24 12:30
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:40*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		9.90		mg/Kg			12/31/24 16:30	1

Client Sample ID: BH - 210 (3')

Lab Sample ID: 890-7522-20
Matrix: Solid
Date Collected: 12/27/24 12:35
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 16:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 19:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*12/30/24 19:21*	*12/31/24 19:57*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*12/30/24 19:21*	*12/31/24 19:57*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 210 (3')

Lab Sample ID: 890-7522-20
Matrix: Solid
Date Collected: 12/27/24 12:35
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.0	F1	10.1		mg/Kg			12/31/24 16:36	1

Client Sample ID: BH - 211 (3')

Lab Sample ID: 890-7522-21
Matrix: Solid
Date Collected: 12/27/24 12:40
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 16:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:39*	*12/31/24 16:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 16:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 20:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:13*	*1*
o-Terphenyl	*85*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		9.96		mg/Kg			12/31/24 16:53	1

Client Sample ID: BH - 207 (3')

Lab Sample ID: 890-7522-22
Matrix: Solid
Date Collected: 12/27/24 12:45
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 207 (3')

Lab Sample ID: 890-7522-22
Matrix: Solid
Date Collected: 12/27/24 12:45
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/31/24 08:39	12/31/24 17:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/31/24 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 20:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1
Total TPH	<49.7	U	49.7		mg/Kg		12/30/24 19:21	12/31/24 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:30*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		10.0		mg/Kg			12/31/24 16:59	1

Client Sample ID: BH - 209 (3')

Lab Sample ID: 890-7522-23
Matrix: Solid
Date Collected: 12/27/24 12:50
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 17:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:27*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:27*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 209 (3')

Lab Sample ID: 890-7522-23
Matrix: Solid
Date Collected: 12/27/24 12:50
Date Received: 12/27/24 16:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/31/24 17:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 20:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:45*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/30/24 19:21*	*12/31/24 20:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		10.1		mg/Kg			12/31/24 17:17	1

Client Sample ID: BH - 197 (3')

Lab Sample ID: 890-7522-25
Matrix: Solid
Date Collected: 12/27/24 01:00
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 17:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:48*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 17:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 17:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 21:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 197 (3')

Lab Sample ID: 890-7522-25
Matrix: Solid
Date Collected: 12/27/24 01:00
Date Received: 12/27/24 16:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1
Total TPH	<49.9	U	49.9		mg/Kg		12/30/24 19:21	12/31/24 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:17*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		10.1		mg/Kg			12/31/24 17:23	1

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26
Matrix: Solid
Date Collected: 12/27/24 01:05
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 18:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:08*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 18:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 21:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:34*	*1*
o-Terphenyl	*71*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:34*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26
Matrix: Solid
Date Collected: 12/27/24 01:05
Date Received: 12/27/24 16:55

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		10.0		mg/Kg			12/31/24 17:29	1

Client Sample ID: BH - 194 (3')

Lab Sample ID: 890-7522-27
Matrix: Solid
Date Collected: 12/27/24 01:10
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 18:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:28*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/31/24 18:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 21:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:49*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 21:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		10.0		mg/Kg			12/31/24 17:35	1

Client Sample ID: BH - 195 (3')

Lab Sample ID: 890-7522-28
Matrix: Solid
Date Collected: 12/27/24 01:15
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 195 (3')

Lab Sample ID: 890-7522-28
Date Collected: 12/27/24 01:15
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/31/24 08:39	12/31/24 18:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/31/24 08:39	12/31/24 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:49*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/31/24 08:39*	*12/31/24 18:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/31/24 18:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 22:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1
Total TPH	<49.8	U	49.8		mg/Kg		12/30/24 19:21	12/31/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:06*	*1*
o-Terphenyl	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		10.1		mg/Kg			12/31/24 17:40	1

Client Sample ID: BH - 203 (3')

Lab Sample ID: 890-7522-29
Date Collected: 12/27/24 00:00
Matrix: Solid
Date Received: 12/27/24 16:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/31/24 08:39	12/31/24 19:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/31/24 08:39	12/31/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/31/24 08:39*	*12/31/24 19:09*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/31/24 08:39*	*12/31/24 19:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 203 (3')

Date Collected: 12/27/24 00:00
Date Received: 12/27/24 16:55

Lab Sample ID: 890-7522-29

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/31/24 19:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 22:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:21*	*1*
o-Terphenyl	*74*		*70 - 130*	*12/30/24 19:21*	*12/31/24 22:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**286**		10.0		mg/Kg			12/31/24 17:46	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7521-A-1-G MS	Matrix Spike	113	100
890-7521-A-1-H MSD	Matrix Spike Duplicate	109	102
890-7521-A-7-C MS	Matrix Spike	101	99
890-7521-A-7-D MSD	Matrix Spike Duplicate	107	99
890-7522-1	BH - 181 (3')	101	101
890-7522-2	BH - 179 (4')	111	96
890-7522-3	BH - 178 (4')	105	96
890-7522-4	BH - 182 (3')	109	96
890-7522-5	BH - 180 (3')	102	97
890-7522-6	BH - 202 (3')	116	99
890-7522-7	BH - 196 (3')	99	101
890-7522-9	BH - 199 (3')	109	98
890-7522-10	BH - 200 (3')	106	98
890-7522-11	BH - 201 (3')	111	96
890-7522-12	BH - 214 (3')	93	97
890-7522-13	BH - 213 (3')	102	98
890-7522-14	BH - 212 (3')	98	97
890-7522-15	BH - 215 (3')	105	98
890-7522-16	BH - 205 (3')	117	99
890-7522-17	BH - 206 (3')	118	102
890-7522-18	BH - 204 (3')	108	103
890-7522-19	BH - 208 (3')	114	103
890-7522-20	BH - 210 (3')	112	105
890-7522-21	BH - 211 (3')	112	101
890-7522-22	BH - 207 (3')	116	103
890-7522-23	BH - 209 (3')	115	99
890-7522-25	BH - 197 (3')	118	103
890-7522-26	BH - 193 (3')	114	103
890-7522-27	BH - 194 (3')	117	103
890-7522-28	BH - 195 (3')	115	103
890-7522-29	BH - 203 (3')	116	101
LCS 880-99145/1-A	Lab Control Sample	104	102
LCS 880-99150/1-A	Lab Control Sample	100	100
LCSD 880-99145/2-A	Lab Control Sample Dup	108	97
LCSD 880-99150/2-A	Lab Control Sample Dup	109	97
MB 880-99145/5-A	Method Blank	107	96
MB 880-99150/5-A	Method Blank	89	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-52702-A-1-C MS	Matrix Spike	62 S1-	58 S1-
880-52702-A-1-D MSD	Matrix Spike Duplicate	65 S1-	59 S1-

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-7521-A-21-B MS	Matrix Spike	76	73								
890-7521-A-21-C MSD	Matrix Spike Duplicate	76	74								
890-7522-1	BH - 181 (3')	74	74								
890-7522-2	BH - 179 (4')	71	71								
890-7522-3	BH - 178 (4')	75	75								
890-7522-4	BH - 182 (3')	78	78								
890-7522-5	BH - 180 (3')	78	76								
890-7522-6	BH - 202 (3')	79	80								
890-7522-7	BH - 196 (3')	71	70								
890-7522-9	BH - 199 (3')	72	70								
890-7522-10	BH - 200 (3')	69 S1-	68 S1-								
890-7522-11	BH - 201 (3')	77	76								
890-7522-12	BH - 214 (3')	79	77								
890-7522-13	BH - 213 (3')	86	84								
890-7522-14	BH - 212 (3')	74	71								
890-7522-14 MS	BH - 212 (3')	76	77								
890-7522-14 MSD	BH - 212 (3')	75	75								
890-7522-15	BH - 215 (3')	80	79								
890-7522-16	BH - 205 (3')	76	75								
890-7522-17	BH - 206 (3')	75	76								
890-7522-18	BH - 204 (3')	73	73								
890-7522-19	BH - 208 (3')	82	80								
890-7522-20	BH - 210 (3')	71	69 S1-								
890-7522-21	BH - 211 (3')	84	85								
890-7522-22	BH - 207 (3')	83	80								
890-7522-23	BH - 209 (3')	81	79								
890-7522-25	BH - 197 (3')	78	77								
890-7522-26	BH - 193 (3')	73	71								
890-7522-27	BH - 194 (3')	74	74								
890-7522-28	BH - 195 (3')	77	75								
890-7522-29	BH - 203 (3')	75	74								
LCS 880-99125/2-A	Lab Control Sample	123	110								
LCS 880-99126/2-A	Lab Control Sample	98	98								
LCS 880-99158/2-A	Lab Control Sample	149 S1+	131 S1+								
LCSD 880-99125/3-A	Lab Control Sample Dup	151 S1+	134 S1+								
LCSD 880-99126/3-A	Lab Control Sample Dup	105	104								
LCSD 880-99158/3-A	Lab Control Sample Dup	125	108								
MB 880-99125/1-A	Method Blank	121	121								
MB 880-99126/1-A	Method Blank	82	77								
MB 880-99158/1-A	Method Blank	88	97								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99145/5-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:39	12/31/24 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:39	12/31/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/31/24 08:39*	*12/31/24 11:27*	*1*

Lab Sample ID: LCS 880-99145/1-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1095		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1080		mg/Kg		108	70 - 130		
Toluene			0.100	0.1058		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2170		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1107		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-99145/2-A
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1023		mg/Kg		102	70 - 130	7	35
Ethylbenzene			0.100	0.1014		mg/Kg		101	70 - 130	6	35
Toluene			0.100	0.09858		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2051		mg/Kg		103	70 - 130	6	35
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7521-A-1-G MS
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09539		mg/Kg		95	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09827		mg/Kg		98	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7521-A-1-G MS
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.100	0.09363		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7521-A-1-H MSD
Matrix: Solid
Analysis Batch: 99140

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99145

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09789		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09960		mg/Kg		100	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.09565		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2001		mg/Kg		100	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-99150/5-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/31/24 08:49	12/31/24 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/31/24 08:49	12/31/24 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/31/24 08:49*	*12/31/24 11:31*	*1*

Lab Sample ID: LCS 880-99150/1-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09496		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09904		mg/Kg		99	70 - 130
Toluene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-99150/1-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99150

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1042		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-99150/2-A
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99150

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09838		mg/Kg		98	70 - 130	4	35
Ethylbenzene			0.100	0.09536		mg/Kg		95	70 - 130	4	35
Toluene			0.100	0.09733		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1853		mg/Kg		93	70 - 130	4	35
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7521-A-7-C MS
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08739		mg/Kg		87	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08691		mg/Kg		87	70 - 130		
Toluene	<0.00200	U	0.100	0.08895		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1704		mg/Kg		85	70 - 130		
o-Xylene	<0.00200	U	0.100	0.09174		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7521-A-7-D MSD
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09328		mg/Kg		93	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.09680		mg/Kg		97	70 - 130	11	35
Toluene	<0.00200	U	0.100	0.09848		mg/Kg		98	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1902		mg/Kg		95	70 - 130	11	35
o-Xylene	<0.00200	U	0.100	0.1009		mg/Kg		101	70 - 130	9	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7521-A-7-D MSD
Matrix: Solid
Analysis Batch: 99141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99150

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-99125/1-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:18	12/31/24 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/30/24 19:18	12/31/24 09:55	1
o-Terphenyl	121		70 - 130	12/30/24 19:18	12/31/24 09:55	1

Lab Sample ID: LCS 880-99125/2-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	973.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1040		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-99125/3-A
Matrix: Solid
Analysis Batch: 99166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99125

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1233	*1	mg/Kg		123	70 - 130	24	20
Diesel Range Organics (Over C10-C28)			1000	1249		mg/Kg		125	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	134	S1+	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7521-A-21-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99166 — **Prep Batch: 99125**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	640.1	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	620.7	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 890-7521-A-21-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99166 — **Prep Batch: 99125**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	633.7	F1	mg/Kg		63	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	583.0	F1	mg/Kg		58	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: MB 880-99126/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99162 — **Prep Batch: 99126**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1
Total TPH	<50.0	U	50.0		mg/Kg		12/30/24 19:21	12/31/24 16:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/30/24 19:21*	*12/31/24 16:43*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/30/24 19:21*	*12/31/24 16:43*	*1*

Lab Sample ID: LCS 880-99126/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99162 — **Prep Batch: 99126**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	979.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	871.0		mg/Kg		87	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-99126/2-A
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-99126/3-A
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99126

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	922.2		mg/Kg		92	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-7522-14 MS
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: BH - 212 (3')
Prep Type: Total/NA
Prep Batch: 99126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	561.6	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	90.2	F1	997	585.2	F1	mg/Kg		50	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 890-7522-14 MSD
Matrix: Solid
Analysis Batch: 99162

Client Sample ID: BH - 212 (3')
Prep Type: Total/NA
Prep Batch: 99126

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	541.1	F1	mg/Kg		54	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	90.2	F1	997	578.7	F1	mg/Kg		49	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-99158/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1
Total TPH	<50.0	U	50.0		mg/Kg		12/31/24 09:49	12/31/24 09:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/31/24 09:49*	*12/31/24 09:55*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/31/24 09:49*	*12/31/24 09:55*	*1*

Lab Sample ID: LCS 880-99158/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1237		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1302		mg/Kg		130	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*149*	*S1+*	*70 - 130*
o-Terphenyl	*131*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-99158/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1007		mg/Kg		101	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1063		mg/Kg		106	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*125*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 880-52702-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99168 — **Prep Batch: 99158**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	465.6	F1	mg/Kg		47	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	564.2	F1	mg/Kg		57	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-52702-A-1-C MS
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99158

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	62	S1-	70 - 130
o-Terphenyl	58	S1-	70 - 130

Lab Sample ID: 880-52702-A-1-D MSD
Matrix: Solid
Analysis Batch: 99168

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99158

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	504.2	F1	mg/Kg		51	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	549.6	F1	mg/Kg		55	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenyl	59	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99137/1-A
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/31/24 11:28	1

Lab Sample ID: LCS 880-99137/2-A
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.0		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-99137/3-A
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	270.3		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7522-3 MS
Matrix: Solid
Analysis Batch: 99151

Client Sample ID: BH - 178 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	111		249	385.0		mg/Kg		110	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7522-3 MSD — **Client Sample ID: BH - 178 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	111		249	385.7		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-99138/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/31/24 14:55	1

Lab Sample ID: LCS 880-99138/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	270.9		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-99138/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	271.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7522-10 MS — **Client Sample ID: BH - 200 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	147	F1	252	459.9	F1	mg/Kg		124	90 - 110

Lab Sample ID: 890-7522-10 MSD — **Client Sample ID: BH - 200 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	147	F1	252	459.4	F1	mg/Kg		124	90 - 110	0	20

Lab Sample ID: 890-7522-20 MS — **Client Sample ID: BH - 210 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	92.0	F1	252	387.3	F1	mg/Kg		117	90 - 110

Lab Sample ID: 890-7522-20 MSD — **Client Sample ID: BH - 210 (3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	92.0	F1	252	388.1	F1	mg/Kg		117	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC VOA

Analysis Batch: 99140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-16	BH - 205 (3')	Total/NA	Solid	8021B	99145
890-7522-17	BH - 206 (3')	Total/NA	Solid	8021B	99145
890-7522-18	BH - 204 (3')	Total/NA	Solid	8021B	99145
890-7522-19	BH - 208 (3')	Total/NA	Solid	8021B	99145
890-7522-20	BH - 210 (3')	Total/NA	Solid	8021B	99145
890-7522-21	BH - 211 (3')	Total/NA	Solid	8021B	99145
890-7522-22	BH - 207 (3')	Total/NA	Solid	8021B	99145
890-7522-23	BH - 209 (3')	Total/NA	Solid	8021B	99145
890-7522-25	BH - 197 (3')	Total/NA	Solid	8021B	99145
890-7522-26	BH - 193 (3')	Total/NA	Solid	8021B	99145
890-7522-27	BH - 194 (3')	Total/NA	Solid	8021B	99145
890-7522-28	BH - 195 (3')	Total/NA	Solid	8021B	99145
890-7522-29	BH - 203 (3')	Total/NA	Solid	8021B	99145
MB 880-99145/5-A	Method Blank	Total/NA	Solid	8021B	99145
LCS 880-99145/1-A	Lab Control Sample	Total/NA	Solid	8021B	99145
LCSD 880-99145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99145
890-7521-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	99145
890-7521-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99145

Analysis Batch: 99141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8021B	99150
890-7522-2	BH - 179 (4')	Total/NA	Solid	8021B	99150
890-7522-3	BH - 178 (4')	Total/NA	Solid	8021B	99150
890-7522-4	BH - 182 (3')	Total/NA	Solid	8021B	99150
890-7522-5	BH - 180 (3')	Total/NA	Solid	8021B	99150
890-7522-6	BH - 202 (3')	Total/NA	Solid	8021B	99150
890-7522-7	BH - 196 (3')	Total/NA	Solid	8021B	99150
890-7522-9	BH - 199 (3')	Total/NA	Solid	8021B	99150
890-7522-10	BH - 200 (3')	Total/NA	Solid	8021B	99150
890-7522-11	BH - 201 (3')	Total/NA	Solid	8021B	99150
890-7522-12	BH - 214 (3')	Total/NA	Solid	8021B	99150
890-7522-13	BH - 213 (3')	Total/NA	Solid	8021B	99150
890-7522-14	BH - 212 (3')	Total/NA	Solid	8021B	99150
890-7522-15	BH - 215 (3')	Total/NA	Solid	8021B	99150
MB 880-99150/5-A	Method Blank	Total/NA	Solid	8021B	99150
LCS 880-99150/1-A	Lab Control Sample	Total/NA	Solid	8021B	99150
LCSD 880-99150/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99150
890-7521-A-7-C MS	Matrix Spike	Total/NA	Solid	8021B	99150
890-7521-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99150

Prep Batch: 99145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-16	BH - 205 (3')	Total/NA	Solid	5035	
890-7522-17	BH - 206 (3')	Total/NA	Solid	5035	
890-7522-18	BH - 204 (3')	Total/NA	Solid	5035	
890-7522-19	BH - 208 (3')	Total/NA	Solid	5035	
890-7522-20	BH - 210 (3')	Total/NA	Solid	5035	
890-7522-21	BH - 211 (3')	Total/NA	Solid	5035	
890-7522-22	BH - 207 (3')	Total/NA	Solid	5035	
890-7522-23	BH - 209 (3')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC VOA (Continued)

Prep Batch: 99145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-25	BH - 197 (3')	Total/NA	Solid	5035	
890-7522-26	BH - 193 (3')	Total/NA	Solid	5035	
890-7522-27	BH - 194 (3')	Total/NA	Solid	5035	
890-7522-28	BH - 195 (3')	Total/NA	Solid	5035	
890-7522-29	BH - 203 (3')	Total/NA	Solid	5035	
MB 880-99145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-7521-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 99150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	5035	
890-7522-2	BH - 179 (4')	Total/NA	Solid	5035	
890-7522-3	BH - 178 (4')	Total/NA	Solid	5035	
890-7522-4	BH - 182 (3')	Total/NA	Solid	5035	
890-7522-5	BH - 180 (3')	Total/NA	Solid	5035	
890-7522-6	BH - 202 (3')	Total/NA	Solid	5035	
890-7522-7	BH - 196 (3')	Total/NA	Solid	5035	
890-7522-9	BH - 199 (3')	Total/NA	Solid	5035	
890-7522-10	BH - 200 (3')	Total/NA	Solid	5035	
890-7522-11	BH - 201 (3')	Total/NA	Solid	5035	
890-7522-12	BH - 214 (3')	Total/NA	Solid	5035	
890-7522-13	BH - 213 (3')	Total/NA	Solid	5035	
890-7522-14	BH - 212 (3')	Total/NA	Solid	5035	
890-7522-15	BH - 215 (3')	Total/NA	Solid	5035	
MB 880-99150/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99150/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99150/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7521-A-7-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7521-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	Total BTEX	
890-7522-2	BH - 179 (4')	Total/NA	Solid	Total BTEX	
890-7522-3	BH - 178 (4')	Total/NA	Solid	Total BTEX	
890-7522-4	BH - 182 (3')	Total/NA	Solid	Total BTEX	
890-7522-5	BH - 180 (3')	Total/NA	Solid	Total BTEX	
890-7522-6	BH - 202 (3')	Total/NA	Solid	Total BTEX	
890-7522-7	BH - 196 (3')	Total/NA	Solid	Total BTEX	
890-7522-9	BH - 199 (3')	Total/NA	Solid	Total BTEX	
890-7522-10	BH - 200 (3')	Total/NA	Solid	Total BTEX	
890-7522-11	BH - 201 (3')	Total/NA	Solid	Total BTEX	
890-7522-12	BH - 214 (3')	Total/NA	Solid	Total BTEX	
890-7522-13	BH - 213 (3')	Total/NA	Solid	Total BTEX	
890-7522-14	BH - 212 (3')	Total/NA	Solid	Total BTEX	
890-7522-15	BH - 215 (3')	Total/NA	Solid	Total BTEX	
890-7522-16	BH - 205 (3')	Total/NA	Solid	Total BTEX	
890-7522-17	BH - 206 (3')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC VOA (Continued)

Analysis Batch: 99211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-18	BH - 204 (3')	Total/NA	Solid	Total BTEX	
890-7522-19	BH - 208 (3')	Total/NA	Solid	Total BTEX	
890-7522-20	BH - 210 (3')	Total/NA	Solid	Total BTEX	
890-7522-21	BH - 211 (3')	Total/NA	Solid	Total BTEX	
890-7522-22	BH - 207 (3')	Total/NA	Solid	Total BTEX	
890-7522-23	BH - 209 (3')	Total/NA	Solid	Total BTEX	
890-7522-25	BH - 197 (3')	Total/NA	Solid	Total BTEX	
890-7522-26	BH - 193 (3')	Total/NA	Solid	Total BTEX	
890-7522-27	BH - 194 (3')	Total/NA	Solid	Total BTEX	
890-7522-28	BH - 195 (3')	Total/NA	Solid	Total BTEX	
890-7522-29	BH - 203 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8015NM Prep	
890-7522-2	BH - 179 (4')	Total/NA	Solid	8015NM Prep	
890-7522-3	BH - 178 (4')	Total/NA	Solid	8015NM Prep	
890-7522-4	BH - 182 (3')	Total/NA	Solid	8015NM Prep	
890-7522-5	BH - 180 (3')	Total/NA	Solid	8015NM Prep	
890-7522-6	BH - 202 (3')	Total/NA	Solid	8015NM Prep	
MB 880-99125/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99125/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7521-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7521-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 99126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-14	BH - 212 (3')	Total/NA	Solid	8015NM Prep	
890-7522-15	BH - 215 (3')	Total/NA	Solid	8015NM Prep	
890-7522-16	BH - 205 (3')	Total/NA	Solid	8015NM Prep	
890-7522-17	BH - 206 (3')	Total/NA	Solid	8015NM Prep	
890-7522-18	BH - 204 (3')	Total/NA	Solid	8015NM Prep	
890-7522-19	BH - 208 (3')	Total/NA	Solid	8015NM Prep	
890-7522-20	BH - 210 (3')	Total/NA	Solid	8015NM Prep	
890-7522-21	BH - 211 (3')	Total/NA	Solid	8015NM Prep	
890-7522-22	BH - 207 (3')	Total/NA	Solid	8015NM Prep	
890-7522-23	BH - 209 (3')	Total/NA	Solid	8015NM Prep	
890-7522-25	BH - 197 (3')	Total/NA	Solid	8015NM Prep	
890-7522-26	BH - 193 (3')	Total/NA	Solid	8015NM Prep	
890-7522-27	BH - 194 (3')	Total/NA	Solid	8015NM Prep	
890-7522-28	BH - 195 (3')	Total/NA	Solid	8015NM Prep	
890-7522-29	BH - 203 (3')	Total/NA	Solid	8015NM Prep	
MB 880-99126/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99126/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7522-14 MS	BH - 212 (3')	Total/NA	Solid	8015NM Prep	
890-7522-14 MSD	BH - 212 (3')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC Semi VOA

Prep Batch: 99158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-7	BH - 196 (3')	Total/NA	Solid	8015NM Prep	
890-7522-9	BH - 199 (3')	Total/NA	Solid	8015NM Prep	
890-7522-10	BH - 200 (3')	Total/NA	Solid	8015NM Prep	
890-7522-11	BH - 201 (3')	Total/NA	Solid	8015NM Prep	
890-7522-12	BH - 214 (3')	Total/NA	Solid	8015NM Prep	
890-7522-13	BH - 213 (3')	Total/NA	Solid	8015NM Prep	
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52702-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52702-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-14	BH - 212 (3')	Total/NA	Solid	8015B NM	99126
890-7522-15	BH - 215 (3')	Total/NA	Solid	8015B NM	99126
890-7522-16	BH - 205 (3')	Total/NA	Solid	8015B NM	99126
890-7522-17	BH - 206 (3')	Total/NA	Solid	8015B NM	99126
890-7522-18	BH - 204 (3')	Total/NA	Solid	8015B NM	99126
890-7522-19	BH - 208 (3')	Total/NA	Solid	8015B NM	99126
890-7522-20	BH - 210 (3')	Total/NA	Solid	8015B NM	99126
890-7522-21	BH - 211 (3')	Total/NA	Solid	8015B NM	99126
890-7522-22	BH - 207 (3')	Total/NA	Solid	8015B NM	99126
890-7522-23	BH - 209 (3')	Total/NA	Solid	8015B NM	99126
890-7522-25	BH - 197 (3')	Total/NA	Solid	8015B NM	99126
890-7522-26	BH - 193 (3')	Total/NA	Solid	8015B NM	99126
890-7522-27	BH - 194 (3')	Total/NA	Solid	8015B NM	99126
890-7522-28	BH - 195 (3')	Total/NA	Solid	8015B NM	99126
890-7522-29	BH - 203 (3')	Total/NA	Solid	8015B NM	99126
MB 880-99126/1-A	Method Blank	Total/NA	Solid	8015B NM	99126
LCS 880-99126/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99126
LCSD 880-99126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99126
890-7522-14 MS	BH - 212 (3')	Total/NA	Solid	8015B NM	99126
890-7522-14 MSD	BH - 212 (3')	Total/NA	Solid	8015B NM	99126

Analysis Batch: 99166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8015B NM	99125
890-7522-2	BH - 179 (4')	Total/NA	Solid	8015B NM	99125
890-7522-3	BH - 178 (4')	Total/NA	Solid	8015B NM	99125
890-7522-4	BH - 182 (3')	Total/NA	Solid	8015B NM	99125
890-7522-5	BH - 180 (3')	Total/NA	Solid	8015B NM	99125
890-7522-6	BH - 202 (3')	Total/NA	Solid	8015B NM	99125
MB 880-99125/1-A	Method Blank	Total/NA	Solid	8015B NM	99125
LCS 880-99125/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99125
LCSD 880-99125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99125
890-7521-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	99125
890-7521-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99125

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

GC Semi VOA

Analysis Batch: 99168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-7	BH - 196 (3')	Total/NA	Solid	8015B NM	99158
890-7522-9	BH - 199 (3')	Total/NA	Solid	8015B NM	99158
890-7522-10	BH - 200 (3')	Total/NA	Solid	8015B NM	99158
890-7522-11	BH - 201 (3')	Total/NA	Solid	8015B NM	99158
890-7522-12	BH - 214 (3')	Total/NA	Solid	8015B NM	99158
890-7522-13	BH - 213 (3')	Total/NA	Solid	8015B NM	99158
MB 880-99158/1-A	Method Blank	Total/NA	Solid	8015B NM	99158
LCS 880-99158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99158
LCSD 880-99158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99158
880-52702-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	99158
880-52702-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99158

Analysis Batch: 99221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Total/NA	Solid	8015 NM	
890-7522-2	BH - 179 (4')	Total/NA	Solid	8015 NM	
890-7522-3	BH - 178 (4')	Total/NA	Solid	8015 NM	
890-7522-4	BH - 182 (3')	Total/NA	Solid	8015 NM	
890-7522-5	BH - 180 (3')	Total/NA	Solid	8015 NM	
890-7522-6	BH - 202 (3')	Total/NA	Solid	8015 NM	
890-7522-7	BH - 196 (3')	Total/NA	Solid	8015 NM	
890-7522-9	BH - 199 (3')	Total/NA	Solid	8015 NM	
890-7522-10	BH - 200 (3')	Total/NA	Solid	8015 NM	
890-7522-11	BH - 201 (3')	Total/NA	Solid	8015 NM	
890-7522-12	BH - 214 (3')	Total/NA	Solid	8015 NM	
890-7522-13	BH - 213 (3')	Total/NA	Solid	8015 NM	
890-7522-14	BH - 212 (3')	Total/NA	Solid	8015 NM	
890-7522-15	BH - 215 (3')	Total/NA	Solid	8015 NM	
890-7522-16	BH - 205 (3')	Total/NA	Solid	8015 NM	
890-7522-17	BH - 206 (3')	Total/NA	Solid	8015 NM	
890-7522-18	BH - 204 (3')	Total/NA	Solid	8015 NM	
890-7522-19	BH - 208 (3')	Total/NA	Solid	8015 NM	
890-7522-20	BH - 210 (3')	Total/NA	Solid	8015 NM	
890-7522-21	BH - 211 (3')	Total/NA	Solid	8015 NM	
890-7522-22	BH - 207 (3')	Total/NA	Solid	8015 NM	
890-7522-23	BH - 209 (3')	Total/NA	Solid	8015 NM	
890-7522-25	BH - 197 (3')	Total/NA	Solid	8015 NM	
890-7522-26	BH - 193 (3')	Total/NA	Solid	8015 NM	
890-7522-27	BH - 194 (3')	Total/NA	Solid	8015 NM	
890-7522-28	BH - 195 (3')	Total/NA	Solid	8015 NM	
890-7522-29	BH - 203 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Soluble	Solid	DI Leach	
890-7522-2	BH - 179 (4')	Soluble	Solid	DI Leach	
890-7522-3	BH - 178 (4')	Soluble	Solid	DI Leach	
890-7522-4	BH - 182 (3')	Soluble	Solid	DI Leach	
890-7522-5	BH - 180 (3')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Leach Batch: 99137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-6	BH - 202 (3')	Soluble	Solid	DI Leach	
890-7522-7	BH - 196 (3')	Soluble	Solid	DI Leach	
890-7522-9	BH - 199 (3')	Soluble	Solid	DI Leach	
MB 880-99137/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99137/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99137/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7522-3 MS	BH - 178 (4')	Soluble	Solid	DI Leach	
890-7522-3 MSD	BH - 178 (4')	Soluble	Solid	DI Leach	

Leach Batch: 99138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-10	BH - 200 (3')	Soluble	Solid	DI Leach	
890-7522-11	BH - 201 (3')	Soluble	Solid	DI Leach	
890-7522-12	BH - 214 (3')	Soluble	Solid	DI Leach	
890-7522-13	BH - 213 (3')	Soluble	Solid	DI Leach	
890-7522-14	BH - 212 (3')	Soluble	Solid	DI Leach	
890-7522-15	BH - 215 (3')	Soluble	Solid	DI Leach	
890-7522-16	BH - 205 (3')	Soluble	Solid	DI Leach	
890-7522-17	BH - 206 (3')	Soluble	Solid	DI Leach	
890-7522-18	BH - 204 (3')	Soluble	Solid	DI Leach	
890-7522-19	BH - 208 (3')	Soluble	Solid	DI Leach	
890-7522-20	BH - 210 (3')	Soluble	Solid	DI Leach	
890-7522-21	BH - 211 (3')	Soluble	Solid	DI Leach	
890-7522-22	BH - 207 (3')	Soluble	Solid	DI Leach	
890-7522-23	BH - 209 (3')	Soluble	Solid	DI Leach	
890-7522-25	BH - 197 (3')	Soluble	Solid	DI Leach	
890-7522-26	BH - 193 (3')	Soluble	Solid	DI Leach	
890-7522-27	BH - 194 (3')	Soluble	Solid	DI Leach	
890-7522-28	BH - 195 (3')	Soluble	Solid	DI Leach	
890-7522-29	BH - 203 (3')	Soluble	Solid	DI Leach	
MB 880-99138/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99138/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99138/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7522-10 MS	BH - 200 (3')	Soluble	Solid	DI Leach	
890-7522-10 MSD	BH - 200 (3')	Soluble	Solid	DI Leach	
890-7522-20 MS	BH - 210 (3')	Soluble	Solid	DI Leach	
890-7522-20 MSD	BH - 210 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 99151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-1	BH - 181 (3')	Soluble	Solid	300.0	99137
890-7522-2	BH - 179 (4')	Soluble	Solid	300.0	99137
890-7522-3	BH - 178 (4')	Soluble	Solid	300.0	99137
890-7522-4	BH - 182 (3')	Soluble	Solid	300.0	99137
890-7522-5	BH - 180 (3')	Soluble	Solid	300.0	99137
890-7522-6	BH - 202 (3')	Soluble	Solid	300.0	99137
890-7522-7	BH - 196 (3')	Soluble	Solid	300.0	99137
890-7522-9	BH - 199 (3')	Soluble	Solid	300.0	99137
MB 880-99137/1-A	Method Blank	Soluble	Solid	300.0	99137
LCS 880-99137/2-A	Lab Control Sample	Soluble	Solid	300.0	99137
LCSD 880-99137/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99137

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Analysis Batch: 99151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-3 MS	BH - 178 (4')	Soluble	Solid	300.0	99137
890-7522-3 MSD	BH - 178 (4')	Soluble	Solid	300.0	99137

Analysis Batch: 99157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7522-10	BH - 200 (3')	Soluble	Solid	300.0	99138
890-7522-11	BH - 201 (3')	Soluble	Solid	300.0	99138
890-7522-12	BH - 214 (3')	Soluble	Solid	300.0	99138
890-7522-13	BH - 213 (3')	Soluble	Solid	300.0	99138
890-7522-14	BH - 212 (3')	Soluble	Solid	300.0	99138
890-7522-15	BH - 215 (3')	Soluble	Solid	300.0	99138
890-7522-16	BH - 205 (3')	Soluble	Solid	300.0	99138
890-7522-17	BH - 206 (3')	Soluble	Solid	300.0	99138
890-7522-18	BH - 204 (3')	Soluble	Solid	300.0	99138
890-7522-19	BH - 208 (3')	Soluble	Solid	300.0	99138
890-7522-20	BH - 210 (3')	Soluble	Solid	300.0	99138
890-7522-21	BH - 211 (3')	Soluble	Solid	300.0	99138
890-7522-22	BH - 207 (3')	Soluble	Solid	300.0	99138
890-7522-23	BH - 209 (3')	Soluble	Solid	300.0	99138
890-7522-25	BH - 197 (3')	Soluble	Solid	300.0	99138
890-7522-26	BH - 193 (3')	Soluble	Solid	300.0	99138
890-7522-27	BH - 194 (3')	Soluble	Solid	300.0	99138
890-7522-28	BH - 195 (3')	Soluble	Solid	300.0	99138
890-7522-29	BH - 203 (3')	Soluble	Solid	300.0	99138
MB 880-99138/1-A	Method Blank	Soluble	Solid	300.0	99138
LCS 880-99138/2-A	Lab Control Sample	Soluble	Solid	300.0	99138
LCSD 880-99138/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99138
890-7522-10 MS	BH - 200 (3')	Soluble	Solid	300.0	99138
890-7522-10 MSD	BH - 200 (3')	Soluble	Solid	300.0	99138
890-7522-20 MS	BH - 210 (3')	Soluble	Solid	300.0	99138
890-7522-20 MSD	BH - 210 (3')	Soluble	Solid	300.0	99138

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 181 (3')

Lab Sample ID: 890-7522-1
Matrix: Solid
Date Collected: 12/27/24 11:00
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 12:57	CH	EET MID

Client Sample ID: BH - 179 (4')

Lab Sample ID: 890-7522-2
Matrix: Solid
Date Collected: 12/27/24 11:05
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:03	CH	EET MID

Client Sample ID: BH - 178 (4')

Lab Sample ID: 890-7522-3
Matrix: Solid
Date Collected: 12/27/24 11:10
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:09	CH	EET MID

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Matrix: Solid
Date Collected: 12/27/24 11:15
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:57	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 182 (3')

Lab Sample ID: 890-7522-4
Date Collected: 12/27/24 11:15
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 14:55	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:27	CH	EET MID

Client Sample ID: BH - 180 (3')

Lab Sample ID: 890-7522-5
Date Collected: 12/27/24 11:20
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 15:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:33	CH	EET MID

Client Sample ID: BH - 202 (3')

Lab Sample ID: 890-7522-6
Date Collected: 12/27/24 11:25
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99125	12/30/24 19:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99166	12/31/24 15:25	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:50	CH	EET MID

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7
Date Collected: 12/27/24 11:30
Matrix: Solid
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:10	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 196 (3')

Lab Sample ID: 890-7522-7
Matrix: Solid
Date Collected: 12/27/24 11:30
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 13:56	CH	EET MID

Client Sample ID: BH - 199 (3')

Lab Sample ID: 890-7522-9
Matrix: Solid
Date Collected: 12/27/24 11:40
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99137	12/31/24 07:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99151	12/31/24 14:02	CH	EET MID

Client Sample ID: BH - 200 (3')

Lab Sample ID: 890-7522-10
Matrix: Solid
Date Collected: 12/27/24 11:45
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:13	SMC	EET MID

Client Sample ID: BH - 201 (3')

Lab Sample ID: 890-7522-11
Matrix: Solid
Date Collected: 12/27/24 11:50
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 14:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 14:55	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:31	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 214 (3')

Lab Sample ID: 890-7522-12
Matrix: Solid
Date Collected: 12/27/24 11:55
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 15:10	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:37	SMC	EET MID

Client Sample ID: BH - 213 (3')

Lab Sample ID: 890-7522-13
Matrix: Solid
Date Collected: 12/27/24 12:00
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 15:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99158	12/31/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99168	12/31/24 15:25	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:43	SMC	EET MID

Client Sample ID: BH - 212 (3')

Lab Sample ID: 890-7522-14
Matrix: Solid
Date Collected: 12/27/24 12:05
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 17:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 17:48	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 15:48	SMC	EET MID

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15
Matrix: Solid
Date Collected: 12/27/24 12:10
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99150	12/31/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99141	12/31/24 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 19:36	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 215 (3')

Lab Sample ID: 890-7522-15
Matrix: Solid
Date Collected: 12/27/24 12:10
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99221	12/31/24 18:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 18:35	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:06	SMC	EET MID

Client Sample ID: BH - 205 (3')

Lab Sample ID: 890-7522-16
Matrix: Solid
Date Collected: 12/27/24 12:15
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 18:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 18:52	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:12	SMC	EET MID

Client Sample ID: BH - 206 (3')

Lab Sample ID: 890-7522-17
Matrix: Solid
Date Collected: 12/27/24 12:20
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:08	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:18	SMC	EET MID

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Matrix: Solid
Date Collected: 12/27/24 12:25
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:25	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 204 (3')

Lab Sample ID: 890-7522-18
Matrix: Solid
Date Collected: 12/27/24 12:25
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:24	SMC	EET MID

Client Sample ID: BH - 208 (3')

Lab Sample ID: 890-7522-19
Matrix: Solid
Date Collected: 12/27/24 12:30
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:40	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:30	SMC	EET MID

Client Sample ID: BH - 210 (3')

Lab Sample ID: 890-7522-20
Matrix: Solid
Date Collected: 12/27/24 12:35
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 19:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 19:57	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:36	SMC	EET MID

Client Sample ID: BH - 211 (3')

Lab Sample ID: 890-7522-21
Matrix: Solid
Date Collected: 12/27/24 12:40
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 20:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 20:13	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:53	SMC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 207 (3')

Lab Sample ID: 890-7522-22
Matrix: Solid
Date Collected: 12/27/24 12:45
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 17:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 20:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 20:30	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 16:59	SMC	EET MID

Client Sample ID: BH - 209 (3')

Lab Sample ID: 890-7522-23
Matrix: Solid
Date Collected: 12/27/24 12:50
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 20:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 20:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:17	SMC	EET MID

Client Sample ID: BH - 197 (3')

Lab Sample ID: 890-7522-25
Matrix: Solid
Date Collected: 12/27/24 01:00
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 21:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 21:17	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:23	SMC	EET MID

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26
Matrix: Solid
Date Collected: 12/27/24 01:05
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:08	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 193 (3')

Lab Sample ID: 890-7522-26
Matrix: Solid
Date Collected: 12/27/24 01:05
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99221	12/31/24 21:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 21:34	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:29	SMC	EET MID

Client Sample ID: BH - 194 (3')

Lab Sample ID: 890-7522-27
Matrix: Solid
Date Collected: 12/27/24 01:10
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 21:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 21:49	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:35	SMC	EET MID

Client Sample ID: BH - 195 (3')

Lab Sample ID: 890-7522-28
Matrix: Solid
Date Collected: 12/27/24 01:15
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 22:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 22:06	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:40	SMC	EET MID

Client Sample ID: BH - 203 (3')

Lab Sample ID: 890-7522-29
Matrix: Solid
Date Collected: 12/27/24 00:00
Date Received: 12/27/24 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99145	12/31/24 08:39	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99140	12/31/24 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99211	12/31/24 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99221	12/31/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99126	12/30/24 19:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99162	12/31/24 22:21	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 203 (3')

Date Collected: 12/27/24 00:00
Date Received: 12/27/24 16:55

Lab Sample ID: 890-7522-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	99138	12/31/24 07:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99157	12/31/24 17:46	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7522-1
SDG: 212C - MD - 03085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7522-1	BH - 181 (3')	Solid	12/27/24 11:00	12/27/24 16:55
890-7522-2	BH - 179 (4')	Solid	12/27/24 11:05	12/27/24 16:55
890-7522-3	BH - 178 (4')	Solid	12/27/24 11:10	12/27/24 16:55
890-7522-4	BH - 182 (3')	Solid	12/27/24 11:15	12/27/24 16:55
890-7522-5	BH - 180 (3')	Solid	12/27/24 11:20	12/27/24 16:55
890-7522-6	BH - 202 (3')	Solid	12/27/24 11:25	12/27/24 16:55
890-7522-7	BH - 196 (3')	Solid	12/27/24 11:30	12/27/24 16:55
890-7522-9	BH - 199 (3')	Solid	12/27/24 11:40	12/27/24 16:55
890-7522-10	BH - 200 (3')	Solid	12/27/24 11:45	12/27/24 16:55
890-7522-11	BH - 201 (3')	Solid	12/27/24 11:50	12/27/24 16:55
890-7522-12	BH - 214 (3')	Solid	12/27/24 11:55	12/27/24 16:55
890-7522-13	BH - 213 (3')	Solid	12/27/24 12:00	12/27/24 16:55
890-7522-14	BH - 212 (3')	Solid	12/27/24 12:05	12/27/24 16:55
890-7522-15	BH - 215 (3')	Solid	12/27/24 12:10	12/27/24 16:55
890-7522-16	BH - 205 (3')	Solid	12/27/24 12:15	12/27/24 16:55
890-7522-17	BH - 206 (3')	Solid	12/27/24 12:20	12/27/24 16:55
890-7522-18	BH - 204 (3')	Solid	12/27/24 12:25	12/27/24 16:55
890-7522-19	BH - 208 (3')	Solid	12/27/24 12:30	12/27/24 16:55
890-7522-20	BH - 210 (3')	Solid	12/27/24 12:35	12/27/24 16:55
890-7522-21	BH - 211 (3')	Solid	12/27/24 12:40	12/27/24 16:55
890-7522-22	BH - 207 (3')	Solid	12/27/24 12:45	12/27/24 16:55
890-7522-23	BH - 209 (3')	Solid	12/27/24 12:50	12/27/24 16:55
890-7522-25	BH - 197 (3')	Solid	12/27/24 01:00	12/27/24 16:55
890-7522-26	BH - 193 (3')	Solid	12/27/24 01:05	12/27/24 16:55
890-7522-27	BH - 194 (3')	Solid	12/27/24 01:10	12/27/24 16:55
890-7522-28	BH - 195 (3')	Solid	12/27/24 01:15	12/27/24 16:55
890-7522-29	BH - 203 (3')	Solid	12/27/24 00:00	12/27/24 16:55

Page 1195 of 1592

Analysis Request of Chain of Custody Record

Page 1 of 14

Tetra Tech, Inc.

901 W Wall Stre
Midland, Texa
Tel (432) 6
Fax (432) 6

890-7522 Chain of Custody

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-181 (3')	12/27/2024	11:00		X			X			X			X												X				
	BH-179 (4')	12/27/2024	11:05		X			X			X			X												X				
	BH-178 (4')	12/27/2024	11:10		X			X			X			X												X				
	BH-182 (3')	12/27/2024	11:15		X			X			X			X												X				
	BH-180 (3')	12/27/2024	11:20		X			X			X			X												X				
	BH-202 (3')	12/27/2024	11:25		X			X			X			X												X				
	BH-196 (3')	12/27/2024	11:30		X			X			X			X												X				
	BH-198 (3')	12/27/2024	11:35		X			X			X			X												X				
	BH-199 (3')	12/27/2024	11:40		X			X			X			X												X				
	BH-200 (3')	12/27/2024	11:45		X			X			X			X												X				

Hold

Page 50 of 66

Relinquished by:	Date: 12.27.24	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 12/27 Time: 16:55

LAB USE ONLY

Sample Temperature
Thermo
-0.2
3.2
3.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)
	BH-201 (3')	12/27/2024	11:50		X			X		
	BH-214 (3')	12/27/2024	11:55		X			X		
	BH-213 (3')	12/27/2024	12:00		X			X		
	BH-212 (3')	12/27/2024	12:05		X			X		
	BH-215 (3')	12/27/2024	12:10		X			X		
	BH-205 (3')	12/27/2024	12:15		X			X		
	BH-206 (3')	12/27/2024	12:20		X			X		
	BH-204 (3')	12/27/2024	12:25		X			X		
	BH-208 (3')	12/27/2024	12:30		X			X		
	BH-210 (3')	12/27/2024	12:35		X			X		

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				

Relinquished by: Date: 12.27.24 Time:

Received by: Date: 12/27 Time: 16 55

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature
TNMC7
-0.2
3.2
3.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/11/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM
Page 66 of 66
1/2/2025

Page 1197 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Culberson County TX	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)
	BH-211 (3')	12/27/2024	12:40		X			X		
	BH-207 (3')	12/27/2024	12:45		X			X		
	BH-209 (3')	12/27/2024	12:50		X			X		
	BH-196 (3')	12/27/2024	12:55		X			X		
	BH-197 (3')	12/27/2024	1:00		X			X		
	BH-193 (3')	12/27/2024	1:05		X			X		
	BH-194 (3')	12/27/2024	1:10		X			X		
	BH-195 (3')	12/27/2024	1:15		X			X		

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				

Relinquished by: Date: 12.27.24 Time:
Received by: Date: 12/27 Time: 1630

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature
Trip Blank -0.2
3-2
3-C

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Page 61 of 66

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1198 of 1592

Analysis Request of Chain of Custody Record

Page 1 of 3



Tetra Tech, Inc.

901 W Wall Stre
Midland, Texa
Tel (432) 6
Fax (432) 6

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)
	BH-181 (3')	12/27/2024	11:00		X			X		
	BH-179 (4')	12/27/2024	11:05		X			X		
	BH-178 (4')	12/27/2024	11:10		X			X		
	BH-182 (3')	12/27/2024	11:15		X			X		
	BH-180 (3')	12/27/2024	11:20		X			X		
	BH-202 (3')	12/27/2024	11:25		X			X		
	BH-196 (3')	12/27/2024	11:30		X			X		
	BH-198 (3')	12/27/2024	11:35		X			X		
	BH-199 (3')	12/27/2024	11:40		X			X		
	BH-200 (3')	12/27/2024	11:45		X			X		

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				
	X		X												X				

Relinquished by: Date: 12.27.24 Time:

Received by: Date: 12/27/24 Time: 16:55

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature
IR #1 -0.2
3.2
3.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 62 of 66

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1199 of 1592

Analysis Request of Chain of Custody Record

12/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2024 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	BTEX 8260B	Hold
	BH-201 (3')	12/27/2024	11:50		X			X			X		X												X				
	BH-214 (3')	12/27/2024	11:55		X			X			X		X												X				
	BH-213 (3')	12/27/2024	12:00		X			X			X		X												X				
	BH-212 (3')	12/27/2024	12:05		X			X			X		X												X				
	BH-215 (3')	12/27/2024	12:10		X			X			X		X												X				
	BH-205 (3')	12/27/2024	12:15		X			X			X		X												X				
	BH-206 (3')	12/27/2024	12:20		X			X			X		X												X				
	BH-204 (3')	12/27/2024	12:25		X			X			X		X												X				
	BH-208 (3')	12/27/2024	12:30		X			X			X		X												X				
	BH-210 (3')	12/27/2024	12:35		X			X			X		X												X				

Relinquished by: Date: 12.27.24 Time:

Received by: Date: 12/27 Time: 16 55

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature
TNmay
-0.2
3.2
3.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Page 63 of 66

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1200 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Brittany Long
Project Name: Iceman SWD	(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state) Culberson County TX	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2024)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-211 (3')	12/27/2024	12:40		X			X				X		X												X						
	BH-207 (3')	12/27/2024	12:45		X			X				X		X												X						
	BH-209 (3')	12/27/2024	12:50		X			X				X		X												X						
	BH-196 (3')	12/27/2024	12:55		X			X				X		X												X						
	BH-197 (3')	12/27/2024	1:00		X			X				X		X												X						
	BH-193 (3')	12/27/2024	1:05		X			X				X		X												X						
	BH-194 (3')	12/27/2024	1:10		X			X				X		X												X						
	BH-195 (3')	12/27/2024	1:15		X			X				X		X												X						
	BH-203 (3') S	12/27			X			X				X		X												X						

Relinquished by: Date: 12.27.24 Time:
Received by: Date: 12/27 Time: 1630

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY

Sample Temperature
Trmcc
-0.2
3-2
3.C

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 64 of 66

Received by OCD: 6/11/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7522-1
SDG Number: 212C - MD - 03085

Login Number: 7522
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7522-1
SDG Number: 212C - MD - 03085

Login Number: 7522
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 12/30/24 08:58 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/13/2025 3:14:36 PM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7666-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

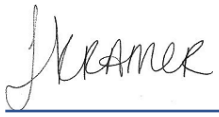
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/13/2025 3:14:36 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7666-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 14
QC Sample Results 16
QC Association Summary 25
Lab Chronicle 29
Certification Summary 33
Method Summary 34
Sample Summary 35
Chain of Custody 36
Receipt Checklists 37

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7666-1

Job ID: 890-7666-1 Eurofins Carlsbad

Job Narrative
890-7666-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/12/2025 3:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-60 (890-7666-1), SW-61 (890-7666-2), SW-62 (890-7666-3), SW-71 (890-7666-4), SW-72 (890-7666-5), SW-73 (890-7666-6), SW-74 (890-7666-7), SW-75 (890-7666-8), SW-76 (890-7666-9) and SW-106 (890-7666-10).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102636 and analytical batch 880-102691 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-60 (890-7666-1), SW-61 (890-7666-2), SW-62 (890-7666-3) and (890-7663-A-61-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (890-7663-A-61-B MS) and (890-7663-A-61-C MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-72 (890-7666-5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-75 (890-7666-8), SW-76 (890-7666-9) and SW-106 (890-7666-10). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102714 and analytical batch 880-102696 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102714 and analytical batch 880-102696 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-60

Lab Sample ID: 890-7666-1
Matrix: Solid
Date Collected: 02/12/25 08:00
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/13/25 08:08	02/13/25 11:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/13/25 08:08	02/13/25 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/13/25 08:08*	*02/13/25 11:23*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/13/25 08:08*	*02/13/25 11:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/13/25 11:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**73.1**		49.8		mg/Kg			02/13/25 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/12/25 16:58	02/13/25 12:37	1
Diesel Range Organics (Over C10-C28)	**73.1**		49.8		mg/Kg		02/12/25 16:58	02/13/25 12:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/25 16:58	02/13/25 12:37	1
Total TPH	**73.1**		49.8		mg/Kg		02/12/25 16:58	02/13/25 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*02/12/25 16:58*	*02/13/25 12:37*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*02/12/25 16:58*	*02/13/25 12:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.8**		10.0		mg/Kg			02/13/25 10:14	1

Client Sample ID: SW-61

Lab Sample ID: 890-7666-2
Matrix: Solid
Date Collected: 02/12/25 08:05
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 11:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 11:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 11:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/25 08:08	02/13/25 11:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/25 08:08	02/13/25 11:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/13/25 08:08*	*02/13/25 11:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/13/25 08:08*	*02/13/25 11:43*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-61

Lab Sample ID: 890-7666-2
Date Collected: 02/12/25 08:05
Matrix: Solid
Date Received: 02/12/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/25 11:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/25 12:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 12:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 12:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 12:53	1
Total TPH	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*02/12/25 16:58*	*02/13/25 12:53*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/12/25 16:58*	*02/13/25 12:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		10.0		mg/Kg			02/13/25 10:32	1

Client Sample ID: SW-62

Lab Sample ID: 890-7666-3
Date Collected: 02/12/25 08:10
Matrix: Solid
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/25 08:08	02/13/25 12:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/25 08:08	02/13/25 12:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*02/13/25 08:08*	*02/13/25 12:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/13/25 08:08*	*02/13/25 12:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/25 12:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/25 13:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/12/25 16:58	02/13/25 13:10	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-62

Lab Sample ID: 890-7666-3
Matrix: Solid
Date Collected: 02/12/25 08:10
Date Received: 02/12/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/12/25 16:58	02/13/25 13:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/25 16:58	02/13/25 13:10	1
Total TPH	<49.8	U	49.8		mg/Kg		02/12/25 16:58	02/13/25 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/12/25 16:58*	*02/13/25 13:10*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*02/12/25 16:58*	*02/13/25 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		10.1		mg/Kg			02/13/25 10:38	1

Client Sample ID: SW-71

Lab Sample ID: 890-7666-4
Matrix: Solid
Date Collected: 02/12/25 08:15
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 12:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/13/25 08:08	02/13/25 12:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/13/25 08:08	02/13/25 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/13/25 08:08*	*02/13/25 12:24*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/13/25 08:08*	*02/13/25 12:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/25 12:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/25 11:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 11:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 11:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 11:49	1
Total TPH	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*02/13/25 11:06*	*02/13/25 11:49*	*1*
o-Terphenyl	*78*		*70 - 130*	*02/13/25 11:06*	*02/13/25 11:49*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-71

Lab Sample ID: 890-7666-4
Matrix: Solid
Date Collected: 02/12/25 08:15
Date Received: 02/12/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		10.1		mg/Kg			02/13/25 10:56	1

Client Sample ID: SW-72

Lab Sample ID: 890-7666-5
Matrix: Solid
Date Collected: 02/12/25 08:20
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/25 08:08	02/13/25 12:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/25 08:08	02/13/25 12:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:08	02/13/25 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/13/25 08:08*	*02/13/25 12:45*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/13/25 08:08*	*02/13/25 12:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/25 12:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/25 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 12:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 12:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 12:37	1
Total TPH	<49.9	U	49.9		mg/Kg		02/13/25 11:06	02/13/25 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*02/13/25 11:06*	*02/13/25 12:37*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/13/25 11:06*	*02/13/25 12:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	288		9.94		mg/Kg			02/13/25 11:02	1

Client Sample ID: SW-73

Lab Sample ID: 890-7666-6
Matrix: Solid
Date Collected: 02/12/25 08:25
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:33	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-73

Date Collected: 02/12/25 08:25
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/13/25 08:10	02/13/25 11:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/13/25 08:10	02/13/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/13/25 08:10*	*02/13/25 11:33*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/13/25 08:10*	*02/13/25 11:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/13/25 11:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/13/25 12:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/13/25 11:06	02/13/25 12:53	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/13/25 11:06	02/13/25 12:53	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/13/25 11:06	02/13/25 12:53	1
Total TPH	<49.7	U	49.7		mg/Kg		02/13/25 11:06	02/13/25 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*02/13/25 11:06*	*02/13/25 12:53*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/13/25 11:06*	*02/13/25 12:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**359**		9.92		mg/Kg			02/13/25 11:08	1

Client Sample ID: SW-74

Date Collected: 02/12/25 08:30
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 11:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 11:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 11:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/25 08:10	02/13/25 11:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/25 08:10	02/13/25 11:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/13/25 08:10*	*02/13/25 11:53*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/13/25 08:10*	*02/13/25 11:53*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-74

Lab Sample ID: 890-7666-7
Matrix: Solid
Date Collected: 02/12/25 08:30
Date Received: 02/12/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/25 11:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/13/25 13:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		02/13/25 11:06	02/13/25 13:10	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/13/25 11:06	02/13/25 13:10	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/13/25 11:06	02/13/25 13:10	1
Total TPH	<50.3	U	50.3		mg/Kg		02/13/25 11:06	02/13/25 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*02/13/25 11:06*	*02/13/25 13:10*	*1*
o-Terphenyl	*75*		*70 - 130*	*02/13/25 11:06*	*02/13/25 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**161**		10.0		mg/Kg			02/13/25 11:15	1

Client Sample ID: SW-75

Lab Sample ID: 890-7666-8
Matrix: Solid
Date Collected: 02/12/25 08:35
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/25 08:10	02/13/25 12:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/25 08:10	02/13/25 12:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/13/25 08:10*	*02/13/25 12:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/13/25 08:10*	*02/13/25 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/25 12:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/25 12:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/13/25 11:08	02/13/25 12:23	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-75

Lab Sample ID: 890-7666-8
Matrix: Solid
Date Collected: 02/12/25 08:35
Date Received: 02/12/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		02/13/25 11:08	02/13/25 12:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/25 11:08	02/13/25 12:23	1
Total TPH	<49.8	U F1	49.8		mg/Kg		02/13/25 11:08	02/13/25 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*02/13/25 11:08*	*02/13/25 12:23*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/13/25 11:08*	*02/13/25 12:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.7**		9.98		mg/Kg			02/13/25 11:21	1

Client Sample ID: SW-76

Lab Sample ID: 890-7666-9
Matrix: Solid
Date Collected: 02/12/25 08:40
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 12:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/13/25 08:10	02/13/25 12:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/13/25 08:10	02/13/25 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/13/25 08:10*	*02/13/25 12:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/13/25 08:10*	*02/13/25 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/25 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/13/25 13:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/13/25 11:08	02/13/25 13:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/25 11:08	02/13/25 13:09	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/25 11:08	02/13/25 13:09	1
Total TPH	<50.5	U	50.5		mg/Kg		02/13/25 11:08	02/13/25 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/13/25 11:08*	*02/13/25 13:09*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*02/13/25 11:08*	*02/13/25 13:09*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-76

Lab Sample ID: 890-7666-9
Matrix: Solid
Date Collected: 02/12/25 08:40
Date Received: 02/12/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		9.96		mg/Kg			02/13/25 11:27	1

Client Sample ID: SW-106

Lab Sample ID: 890-7666-10
Matrix: Solid
Date Collected: 02/12/25 08:45
Date Received: 02/12/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/13/25 08:10	02/13/25 12:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/13/25 08:10	02/13/25 12:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/13/25 08:10	02/13/25 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/13/25 08:10*	*02/13/25 12:54*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/13/25 08:10*	*02/13/25 12:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/25 12:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/13/25 13:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/13/25 11:08	02/13/25 13:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/13/25 11:08	02/13/25 13:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/13/25 11:08	02/13/25 13:24	1
Total TPH	<49.7	U	49.7		mg/Kg		02/13/25 11:08	02/13/25 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*02/13/25 11:08*	*02/13/25 13:24*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/13/25 11:08*	*02/13/25 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.0		9.96		mg/Kg			02/13/25 11:33	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-7666-1	SW-60	119	97										
890-7666-1 MS	SW-60	103	103										
890-7666-1 MSD	SW-60	97	99										
890-7666-2	SW-61	119	99										
890-7666-3	SW-62	124	98										
890-7666-4	SW-71	121	98										
890-7666-5	SW-72	120	99										
890-7666-6	SW-73	102	96										
890-7666-6 MS	SW-73	98	97										
890-7666-6 MSD	SW-73	98	93										
890-7666-7	SW-74	105	104										
890-7666-8	SW-75	100	99										
890-7666-9	SW-76	104	92										
890-7666-10	SW-106	107	98										
LCS 880-102670/1-A	Lab Control Sample	108	103										
LCS 880-102671/1-A	Lab Control Sample	95	97										
LCSD 880-102670/2-A	Lab Control Sample Dup	98	102										
LCSD 880-102671/2-A	Lab Control Sample Dup	103	100										
MB 880-102670/5-A	Method Blank	114	94										
MB 880-102671/5-A	Method Blank	96	95										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-7663-A-61-B MS	Matrix Spike	66 S1-	65 S1-										
890-7663-A-61-C MSD	Matrix Spike Duplicate	68 S1-	67 S1-										
890-7666-1	SW-60	71	64 S1-										
890-7666-2	SW-61	76	66 S1-										
890-7666-3	SW-62	75	66 S1-										
890-7666-4	SW-71	99	78										
890-7666-4 MS	SW-71	96	83										
890-7666-4 MSD	SW-71	100	87										
890-7666-5	SW-72	87	65 S1-										
890-7666-6	SW-73	107	79										
890-7666-7	SW-74	102	75										
890-7666-8	SW-75	81	68 S1-										
890-7666-8 MS	SW-75	92	74										
890-7666-8 MSD	SW-75	88	74										
890-7666-9	SW-76	75	63 S1-										
890-7666-10	SW-106	77	65 S1-										
LCS 880-102636/2-A	Lab Control Sample	82	84										
LCS 880-102712/2-A	Lab Control Sample	127	125										
LCS 880-102714/2-A	Lab Control Sample	95	83										

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7666-1
Project/Site: Iceman SWD
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCSD 880-102636/3-A	Lab Control Sample Dup	83	85								
LCSD 880-102712/3-A	Lab Control Sample Dup	117	109								
LCSD 880-102714/3-A	Lab Control Sample Dup	100	89								
MB 880-102636/1-A	Method Blank	108	101								
MB 880-102712/1-A	Method Blank	91	82								
MB 880-102714/1-A	Method Blank	132 S1+	118								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102670/5-A
Matrix: Solid
Analysis Batch: 102672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/13/25 08:08	02/13/25 11:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/13/25 08:08	02/13/25 11:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:08	02/13/25 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/13/25 08:08*	*02/13/25 11:01*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/13/25 08:08*	*02/13/25 11:01*	*1*

Lab Sample ID: LCS 880-102670/1-A
Matrix: Solid
Analysis Batch: 102672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1089		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1045		mg/Kg		104	70 - 130
Toluene	0.100	0.1148		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2174		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1092		mg/Kg		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-102670/2-A
Matrix: Solid
Analysis Batch: 102672

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102670

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1064		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	4	35
Toluene	0.100	0.1099		mg/Kg		110	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2090		mg/Kg		105	70 - 130	4	35
o-Xylene	0.100	0.1046		mg/Kg		105	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7666-1 MS
Matrix: Solid
Analysis Batch: 102672

Client Sample ID: SW-60
Prep Type: Total/NA
Prep Batch: 102670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09215		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08241		mg/Kg		83	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7666-1 MS
Matrix: Solid
Analysis Batch: 102672

Client Sample ID: SW-60
Prep Type: Total/NA
Prep Batch: 102670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.0998	0.09334		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1693		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08458		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7666-1 MSD
Matrix: Solid
Analysis Batch: 102672

Client Sample ID: SW-60
Prep Type: Total/NA
Prep Batch: 102670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08812		mg/Kg		88	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0996	0.08064		mg/Kg		81	70 - 130	2	35
Toluene	<0.00200	U	0.0996	0.09065		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1651		mg/Kg		83	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.08233		mg/Kg		83	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-102671/5-A
Matrix: Solid
Analysis Batch: 102674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/13/25 08:10	02/13/25 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/13/25 08:10	02/13/25 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:10	02/13/25 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/13/25 08:10*	*02/13/25 11:11*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/13/25 08:10*	*02/13/25 11:11*	*1*

Lab Sample ID: LCS 880-102671/1-A
Matrix: Solid
Analysis Batch: 102674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09832		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
Toluene	0.100	0.09665		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2128		mg/Kg		106	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-102671/1-A
Matrix: Solid
Analysis Batch: 102674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102671

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1025		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-102671/2-A
Matrix: Solid
Analysis Batch: 102674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102671

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1050		mg/Kg		105	70 - 130	7	35
Ethylbenzene			0.100	0.09999		mg/Kg		100	70 - 130	0	35
Toluene			0.100	0.09601		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2122		mg/Kg		106	70 - 130	0	35
o-Xylene			0.100	0.1026		mg/Kg		103	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7666-6 MS
Matrix: Solid
Analysis Batch: 102674

Client Sample ID: SW-73
Prep Type: Total/NA
Prep Batch: 102671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.08224		mg/Kg		82	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.08672		mg/Kg		87	70 - 130		
Toluene	<0.00200	U	0.0998	0.08448		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1858		mg/Kg		93	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.09046		mg/Kg		91	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7666-6 MSD
Matrix: Solid
Analysis Batch: 102674

Client Sample ID: SW-73
Prep Type: Total/NA
Prep Batch: 102671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08478		mg/Kg		85	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.07853		mg/Kg		79	70 - 130	10	35
Toluene	<0.00200	U	0.0996	0.07917		mg/Kg		79	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1733		mg/Kg		87	70 - 130	7	35
o-Xylene	<0.00200	U	0.0996	0.08407		mg/Kg		84	70 - 130	7	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7666-6 MSD
Matrix: Solid
Analysis Batch: 102674

Client Sample ID: SW-73
Prep Type: Total/NA
Prep Batch: 102671

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102636/1-A
Matrix: Solid
Analysis Batch: 102691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 09:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 09:25	1
Total TPH	<50.0	U	50.0		mg/Kg		02/12/25 16:58	02/13/25 09:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	02/12/25 16:58	02/13/25 09:25	1
o-Terphenyl	101		70 - 130	02/12/25 16:58	02/13/25 09:25	1

Lab Sample ID: LCS 880-102636/2-A
Matrix: Solid
Analysis Batch: 102691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102636

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	993.8		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	997.2		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-102636/3-A
Matrix: Solid
Analysis Batch: 102691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102636

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	822.7		mg/Kg		82	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	846.0		mg/Kg		85	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7663-A-61-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102691 — **Prep Batch: 102636**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	490.8	F1	mg/Kg		49	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	535.0	F1	mg/Kg		54	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*66*	*S1-*	*70 - 130*
o-Terphenyl	*65*	*S1-*	*70 - 130*

Lab Sample ID: 890-7663-A-61-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102691 — **Prep Batch: 102636**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	494.2	F1	mg/Kg		50	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	549.7	F1	mg/Kg		55	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*68*	*S1-*	*70 - 130*
o-Terphenyl	*67*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-102712/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102693 — **Prep Batch: 102712**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Total TPH	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*02/13/25 11:04*	*02/13/25 09:25*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/13/25 11:04*	*02/13/25 09:25*	*1*

Lab Sample ID: LCS 880-102712/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102693 — **Prep Batch: 102712**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-102712/2-A
Matrix: Solid
Analysis Batch: 102693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102712

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-102712/3-A
Matrix: Solid
Analysis Batch: 102693

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102712

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	937.9		mg/Kg		94	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	918.3		mg/Kg		92	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-7666-4 MS
Matrix: Solid
Analysis Batch: 102693

Client Sample ID: SW-71
Prep Type: Total/NA
Prep Batch: 102712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	805.0		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	740.0		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-7666-4 MSD
Matrix: Solid
Analysis Batch: 102693

Client Sample ID: SW-71
Prep Type: Total/NA
Prep Batch: 102712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	820.3		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	773.3		mg/Kg		77	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-102714/1-A
Matrix: Solid
Analysis Batch: 102696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/13/25 11:08	02/13/25 09:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/25 11:08	02/13/25 09:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/25 11:08	02/13/25 09:52	1
Total TPH	<50.0	U	50.0		mg/Kg		02/13/25 11:08	02/13/25 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*02/13/25 11:08*	*02/13/25 09:52*	*1*
o-Terphenyl	*118*		*70 - 130*	*02/13/25 11:08*	*02/13/25 09:52*	*1*

Lab Sample ID: LCS 880-102714/2-A
Matrix: Solid
Analysis Batch: 102696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102714

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1174		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1043		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: LCSD 880-102714/3-A
Matrix: Solid
Analysis Batch: 102696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102714

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1212		mg/Kg		121	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: 890-7666-8 MS
Matrix: Solid
Analysis Batch: 102696

Client Sample ID: SW-75
Prep Type: Total/NA
Prep Batch: 102714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	731.3		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	620.0	F1	mg/Kg		62	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7666-8 MS
Matrix: Solid
Analysis Batch: 102696

Client Sample ID: SW-75
Prep Type: Total/NA
Prep Batch: 102714

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-7666-8 MSD
Matrix: Solid
Analysis Batch: 102696

Client Sample ID: SW-75
Prep Type: Total/NA
Prep Batch: 102714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	720.6		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	606.9	F1	mg/Kg		60	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102637/1-A
Matrix: Solid
Analysis Batch: 102685

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/13/25 08:30	1

Lab Sample ID: LCS 880-102637/2-A
Matrix: Solid
Analysis Batch: 102685

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-102637/3-A
Matrix: Solid
Analysis Batch: 102685

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7666-1 MS
Matrix: Solid
Analysis Batch: 102685

Client Sample ID: SW-60
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	77.8		250	332.3		mg/Kg		102	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7666-1 MSD
Matrix: Solid
Analysis Batch: 102685

Client Sample ID: SW-60
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	77.8		250	332.8		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

GC VOA

Prep Batch: 102670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Total/NA	Solid	5035	
890-7666-2	SW-61	Total/NA	Solid	5035	
890-7666-3	SW-62	Total/NA	Solid	5035	
890-7666-4	SW-71	Total/NA	Solid	5035	
890-7666-5	SW-72	Total/NA	Solid	5035	
MB 880-102670/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102670/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102670/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7666-1 MS	SW-60	Total/NA	Solid	5035	
890-7666-1 MSD	SW-60	Total/NA	Solid	5035	

Prep Batch: 102671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-6	SW-73	Total/NA	Solid	5035	
890-7666-7	SW-74	Total/NA	Solid	5035	
890-7666-8	SW-75	Total/NA	Solid	5035	
890-7666-9	SW-76	Total/NA	Solid	5035	
890-7666-10	SW-106	Total/NA	Solid	5035	
MB 880-102671/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102671/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102671/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7666-6 MS	SW-73	Total/NA	Solid	5035	
890-7666-6 MSD	SW-73	Total/NA	Solid	5035	

Analysis Batch: 102672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Total/NA	Solid	8021B	102670
890-7666-2	SW-61	Total/NA	Solid	8021B	102670
890-7666-3	SW-62	Total/NA	Solid	8021B	102670
890-7666-4	SW-71	Total/NA	Solid	8021B	102670
890-7666-5	SW-72	Total/NA	Solid	8021B	102670
MB 880-102670/5-A	Method Blank	Total/NA	Solid	8021B	102670
LCS 880-102670/1-A	Lab Control Sample	Total/NA	Solid	8021B	102670
LCSD 880-102670/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102670
890-7666-1 MS	SW-60	Total/NA	Solid	8021B	102670
890-7666-1 MSD	SW-60	Total/NA	Solid	8021B	102670

Analysis Batch: 102674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-6	SW-73	Total/NA	Solid	8021B	102671
890-7666-7	SW-74	Total/NA	Solid	8021B	102671
890-7666-8	SW-75	Total/NA	Solid	8021B	102671
890-7666-9	SW-76	Total/NA	Solid	8021B	102671
890-7666-10	SW-106	Total/NA	Solid	8021B	102671
MB 880-102671/5-A	Method Blank	Total/NA	Solid	8021B	102671
LCS 880-102671/1-A	Lab Control Sample	Total/NA	Solid	8021B	102671
LCSD 880-102671/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102671
890-7666-6 MS	SW-73	Total/NA	Solid	8021B	102671
890-7666-6 MSD	SW-73	Total/NA	Solid	8021B	102671

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 102724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Total/NA	Solid	Total BTEX	
890-7666-2	SW-61	Total/NA	Solid	Total BTEX	
890-7666-3	SW-62	Total/NA	Solid	Total BTEX	
890-7666-4	SW-71	Total/NA	Solid	Total BTEX	
890-7666-5	SW-72	Total/NA	Solid	Total BTEX	
890-7666-6	SW-73	Total/NA	Solid	Total BTEX	
890-7666-7	SW-74	Total/NA	Solid	Total BTEX	
890-7666-8	SW-75	Total/NA	Solid	Total BTEX	
890-7666-9	SW-76	Total/NA	Solid	Total BTEX	
890-7666-10	SW-106	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Total/NA	Solid	8015NM Prep	
890-7666-2	SW-61	Total/NA	Solid	8015NM Prep	
890-7666-3	SW-62	Total/NA	Solid	8015NM Prep	
MB 880-102636/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102636/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102636/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7663-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7663-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Total/NA	Solid	8015B NM	102636
890-7666-2	SW-61	Total/NA	Solid	8015B NM	102636
890-7666-3	SW-62	Total/NA	Solid	8015B NM	102636
MB 880-102636/1-A	Method Blank	Total/NA	Solid	8015B NM	102636
LCS 880-102636/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102636
LCSD 880-102636/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102636
890-7663-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	102636
890-7663-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102636

Analysis Batch: 102693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-4	SW-71	Total/NA	Solid	8015B NM	102712
890-7666-5	SW-72	Total/NA	Solid	8015B NM	102712
890-7666-6	SW-73	Total/NA	Solid	8015B NM	102712
890-7666-7	SW-74	Total/NA	Solid	8015B NM	102712
MB 880-102712/1-A	Method Blank	Total/NA	Solid	8015B NM	102712
LCS 880-102712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102712
LCSD 880-102712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102712
890-7666-4 MS	SW-71	Total/NA	Solid	8015B NM	102712
890-7666-4 MSD	SW-71	Total/NA	Solid	8015B NM	102712

Analysis Batch: 102696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-8	SW-75	Total/NA	Solid	8015B NM	102714
890-7666-9	SW-76	Total/NA	Solid	8015B NM	102714

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 102696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-10	SW-106	Total/NA	Solid	8015B NM	102714
MB 880-102714/1-A	Method Blank	Total/NA	Solid	8015B NM	102714
LCS 880-102714/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102714
LCSD 880-102714/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102714
890-7666-8 MS	SW-75	Total/NA	Solid	8015B NM	102714
890-7666-8 MSD	SW-75	Total/NA	Solid	8015B NM	102714

Prep Batch: 102712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-4	SW-71	Total/NA	Solid	8015NM Prep	
890-7666-5	SW-72	Total/NA	Solid	8015NM Prep	
890-7666-6	SW-73	Total/NA	Solid	8015NM Prep	
890-7666-7	SW-74	Total/NA	Solid	8015NM Prep	
MB 880-102712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7666-4 MS	SW-71	Total/NA	Solid	8015NM Prep	
890-7666-4 MSD	SW-71	Total/NA	Solid	8015NM Prep	

Prep Batch: 102714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-8	SW-75	Total/NA	Solid	8015NM Prep	
890-7666-9	SW-76	Total/NA	Solid	8015NM Prep	
890-7666-10	SW-106	Total/NA	Solid	8015NM Prep	
MB 880-102714/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102714/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102714/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7666-8 MS	SW-75	Total/NA	Solid	8015NM Prep	
890-7666-8 MSD	SW-75	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Total/NA	Solid	8015 NM	
890-7666-2	SW-61	Total/NA	Solid	8015 NM	
890-7666-3	SW-62	Total/NA	Solid	8015 NM	
890-7666-4	SW-71	Total/NA	Solid	8015 NM	
890-7666-5	SW-72	Total/NA	Solid	8015 NM	
890-7666-6	SW-73	Total/NA	Solid	8015 NM	
890-7666-7	SW-74	Total/NA	Solid	8015 NM	
890-7666-8	SW-75	Total/NA	Solid	8015 NM	
890-7666-9	SW-76	Total/NA	Solid	8015 NM	
890-7666-10	SW-106	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Soluble	Solid	DI Leach	
890-7666-2	SW-61	Soluble	Solid	DI Leach	
890-7666-3	SW-62	Soluble	Solid	DI Leach	
890-7666-4	SW-71	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 102637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-5	SW-72	Soluble	Solid	DI Leach	
890-7666-6	SW-73	Soluble	Solid	DI Leach	
890-7666-7	SW-74	Soluble	Solid	DI Leach	
890-7666-8	SW-75	Soluble	Solid	DI Leach	
890-7666-9	SW-76	Soluble	Solid	DI Leach	
890-7666-10	SW-106	Soluble	Solid	DI Leach	
MB 880-102637/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102637/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102637/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7666-1 MS	SW-60	Soluble	Solid	DI Leach	
890-7666-1 MSD	SW-60	Soluble	Solid	DI Leach	

Analysis Batch: 102685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7666-1	SW-60	Soluble	Solid	300.0	102637
890-7666-2	SW-61	Soluble	Solid	300.0	102637
890-7666-3	SW-62	Soluble	Solid	300.0	102637
890-7666-4	SW-71	Soluble	Solid	300.0	102637
890-7666-5	SW-72	Soluble	Solid	300.0	102637
890-7666-6	SW-73	Soluble	Solid	300.0	102637
890-7666-7	SW-74	Soluble	Solid	300.0	102637
890-7666-8	SW-75	Soluble	Solid	300.0	102637
890-7666-9	SW-76	Soluble	Solid	300.0	102637
890-7666-10	SW-106	Soluble	Solid	300.0	102637
MB 880-102637/1-A	Method Blank	Soluble	Solid	300.0	102637
LCS 880-102637/2-A	Lab Control Sample	Soluble	Solid	300.0	102637
LCSD 880-102637/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102637
890-7666-1 MS	SW-60	Soluble	Solid	300.0	102637
890-7666-1 MSD	SW-60	Soluble	Solid	300.0	102637

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-60

Date Collected: 02/12/25 08:00
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102670	02/13/25 08:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102672	02/13/25 11:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 11:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102636	02/12/25 16:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102691	02/13/25 12:37	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 10:14	CH	EET MID

Client Sample ID: SW-61

Date Collected: 02/12/25 08:05
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102670	02/13/25 08:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102672	02/13/25 11:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 11:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 12:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102636	02/12/25 16:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102691	02/13/25 12:53	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 10:32	CH	EET MID

Client Sample ID: SW-62

Date Collected: 02/12/25 08:10
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102670	02/13/25 08:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102672	02/13/25 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 12:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 13:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102636	02/12/25 16:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102691	02/13/25 13:10	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 10:38	CH	EET MID

Client Sample ID: SW-71

Date Collected: 02/12/25 08:15
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102670	02/13/25 08:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102672	02/13/25 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 12:24	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-71

Date Collected: 02/12/25 08:15
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102730	02/13/25 11:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102712	02/13/25 11:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102693	02/13/25 11:49	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 10:56	CH	EET MID

Client Sample ID: SW-72

Date Collected: 02/12/25 08:20
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102670	02/13/25 08:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102672	02/13/25 12:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 12:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102712	02/13/25 11:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102693	02/13/25 12:37	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 11:02	CH	EET MID

Client Sample ID: SW-73

Date Collected: 02/12/25 08:25
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102671	02/13/25 08:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102674	02/13/25 11:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 11:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 12:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102712	02/13/25 11:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102693	02/13/25 12:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 11:08	CH	EET MID

Client Sample ID: SW-74

Date Collected: 02/12/25 08:30
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102671	02/13/25 08:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102674	02/13/25 11:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 11:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 13:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	102712	02/13/25 11:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102693	02/13/25 13:10	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Client Sample ID: SW-74

Date Collected: 02/12/25 08:30
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 11:15	CH	EET MID

Client Sample ID: SW-75

Date Collected: 02/12/25 08:35
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102671	02/13/25 08:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102674	02/13/25 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 12:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 12:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102714	02/13/25 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102696	02/13/25 12:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 11:21	CH	EET MID

Client Sample ID: SW-76

Date Collected: 02/12/25 08:40
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102671	02/13/25 08:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102674	02/13/25 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 12:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 13:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	102714	02/13/25 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102696	02/13/25 13:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 11:27	CH	EET MID

Client Sample ID: SW-106

Date Collected: 02/12/25 08:45
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7666-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102671	02/13/25 08:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102674	02/13/25 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102724	02/13/25 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102730	02/13/25 13:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102714	02/13/25 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102696	02/13/25 13:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102637	02/12/25 16:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102685	02/13/25 11:33	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7666-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7666-1	SW-60	Solid	02/12/25 08:00	02/12/25 15:01
890-7666-2	SW-61	Solid	02/12/25 08:05	02/12/25 15:01
890-7666-3	SW-62	Solid	02/12/25 08:10	02/12/25 15:01
890-7666-4	SW-71	Solid	02/12/25 08:15	02/12/25 15:01
890-7666-5	SW-72	Solid	02/12/25 08:20	02/12/25 15:01
890-7666-6	SW-73	Solid	02/12/25 08:25	02/12/25 15:01
890-7666-7	SW-74	Solid	02/12/25 08:30	02/12/25 15:01
890-7666-8	SW-75	Solid	02/12/25 08:35	02/12/25 15:01
890-7666-9	SW-76	Solid	02/12/25 08:40	02/12/25 15:01
890-7666-10	SW-106	Solid	02/12/25 08:45	02/12/25 15:01

Page 1238 of 1592

Analysis Request of Chain of Custody Record

890-7666 Chain of Custody

of 1

2/13/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	HNO3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GCMS Vol. 8260B / 624	GCMS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	~~SW-60~~	~~2/12/2025~~	~~8:00~~		X			X				X		X												X							
	SW-61	2/12/2025	8:05		X			X				X		X												X							
	SW-62	2/12/2025	8:10		X			X				X		X												X							
	SW-71	2/12/2025	8:15		X			X				X		X												X							
	SW-72	2/12/2025	8:20		X			X				X		X												X							
	SW-73	2/12/2025	8:25		X			X				X		X												X							
	SW-74	2/12/2025	8:30		X			X				X		X												X							
	SW-75	2/12/2025	8:35		X			X				X		X												X							
	SW-76	2/12/2025	8:40		X			X				X		X												X							
	SW-106	2/12/2025	8:45		X			X				X		X												X							

Relinquished by:	Date: 2.12.2025	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 2/12 Time: 14:01

LAB USE ONLY

Sample Temperature 3.8

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7666-1
SDG Number: Eddy County NM

Login Number: 7666
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7666-1
SDG Number: Eddy County NM

Login Number: 7666
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 02/13/25 07:46 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/13/2025 3:15:31 PM

JOB DESCRIPTION

ICEMAN SWD
Eddy County NM

JOB NUMBER

890-7668-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

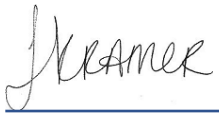
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/13/2025 3:15:31 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7668-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7668-1

Job ID: 890-7668-1 Eurofins Carlsbad

Job Narrative
890-7668-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 2/12/2025 3:01 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: BH-228 (4) (890-7668-1).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Client Sample ID: BH-228 (4)

Date Collected: 02/12/25 08:50
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7668-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:12	02/13/25 12:35	1
Ethylbenzene	**0.0912**		0.00200		mg/Kg		02/13/25 08:12	02/13/25 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:12	02/13/25 12:35	1
Xylenes, Total	**0.0109**		0.00399		mg/Kg		02/13/25 08:12	02/13/25 12:35	1
m-Xylene & p-Xylene	**0.00760**		0.00399		mg/Kg		02/13/25 08:12	02/13/25 12:35	1
o-Xylene	**0.00328**		0.00200		mg/Kg		02/13/25 08:12	02/13/25 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/13/25 08:12*	*02/13/25 12:35*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/13/25 08:12*	*02/13/25 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.102**		0.00399		mg/Kg			02/13/25 12:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/13/25 14:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		02/13/25 12:52	02/13/25 14:27	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/13/25 12:52	02/13/25 14:27	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/13/25 12:52	02/13/25 14:27	1
Total TPH	<50.1	U	50.1		mg/Kg		02/13/25 12:52	02/13/25 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*02/13/25 12:52*	*02/13/25 14:27*	*1*
o-Terphenyl	*83*		*70 - 130*	*02/13/25 12:52*	*02/13/25 14:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11900**		201		mg/Kg			02/13/25 15:04	20

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7665-A-1-B MS	Matrix Spike	112	95
890-7665-A-1-C MSD	Matrix Spike Duplicate	95	94
890-7668-1	BH-228 (4)	90	88
LCS 880-102676/1-A	Lab Control Sample	99	100
LCSD 880-102676/2-A	Lab Control Sample Dup	106	97
MB 880-102676/5-A	Method Blank	95	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7666-A-4-E MS	Matrix Spike	96	83
890-7666-A-4-F MSD	Matrix Spike Duplicate	100	87
890-7668-1	BH-228 (4)	109	83
LCS 880-102712/2-A	Lab Control Sample	127	125
LCSD 880-102712/3-A	Lab Control Sample Dup	117	109
MB 880-102712/1-A	Method Blank	91	82

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102676/5-A
Matrix: Solid
Analysis Batch: 102675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:12	02/13/25 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:12	02/13/25 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:12	02/13/25 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/13/25 08:12	02/13/25 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/13/25 08:12	02/13/25 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/13/25 08:12	02/13/25 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/13/25 08:12*	*02/13/25 11:12*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/13/25 08:12*	*02/13/25 11:12*	*1*

Lab Sample ID: LCS 880-102676/1-A
Matrix: Solid
Analysis Batch: 102675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102676

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1128		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1191		mg/Kg		119	70 - 130		
Toluene			0.100	0.1167		mg/Kg		117	70 - 130		
m-Xylene & p-Xylene			0.200	0.2220		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1168		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-102676/2-A
Matrix: Solid
Analysis Batch: 102675

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102676

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1145		mg/Kg		115	70 - 130	1	35
Ethylbenzene			0.100	0.1253		mg/Kg		125	70 - 130	5	35
Toluene			0.100	0.1213		mg/Kg		121	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2325		mg/Kg		116	70 - 130	5	35
o-Xylene			0.100	0.1236		mg/Kg		124	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7665-A-1-B MS
Matrix: Solid
Analysis Batch: 102675

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.09209		mg/Kg		92	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.09363		mg/Kg		94	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7665-A-1-B MS
Matrix: Solid
Analysis Batch: 102675

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.0998	0.1011		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.00415		0.200	0.1759		mg/Kg		86	70 - 130
o-Xylene	0.00265		0.0998	0.09053		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-7665-A-1-C MSD
Matrix: Solid
Analysis Batch: 102675

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 102676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09227		mg/Kg		93	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.09519		mg/Kg		96	70 - 130	2	35
Toluene	<0.00200	U	0.0996	0.09015		mg/Kg		91	70 - 130	11	35
m-Xylene & p-Xylene	0.00415		0.199	0.1485		mg/Kg		72	70 - 130	17	35
o-Xylene	0.00265		0.0996	0.07757		mg/Kg		75	70 - 130	15	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102712/1-A
Matrix: Solid
Analysis Batch: 102693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Total TPH	<50.0	U	50.0		mg/Kg		02/13/25 11:04	02/13/25 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*02/13/25 11:04*	*02/13/25 09:25*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/13/25 11:04*	*02/13/25 09:25*	*1*

Lab Sample ID: LCS 880-102712/2-A
Matrix: Solid
Analysis Batch: 102693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-102712/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102693 — **Prep Batch: 102712**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1061		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-102712/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102693 — **Prep Batch: 102712**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	937.9		mg/Kg		94	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	918.3		mg/Kg		92	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 890-7666-A-4-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102693 — **Prep Batch: 102712**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	805.0		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	740.0		mg/Kg		74	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-7666-A-4-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102693 — **Prep Batch: 102712**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	820.3		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	773.3		mg/Kg		77	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102690/1-A
Matrix: Solid
Analysis Batch: 102709

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/13/25 09:03	1

Lab Sample ID: LCS 880-102690/2-A
Matrix: Solid
Analysis Batch: 102709

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.4		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-102690/3-A
Matrix: Solid
Analysis Batch: 102709

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.0		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-7665-A-2-D MS
Matrix: Solid
Analysis Batch: 102709

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	153		2530	2557		mg/Kg		95	90 - 110		

Lab Sample ID: 890-7665-A-2-E MSD
Matrix: Solid
Analysis Batch: 102709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	153		2530	2567		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 102675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Total/NA	Solid	8021B	102676
MB 880-102676/5-A	Method Blank	Total/NA	Solid	8021B	102676
LCS 880-102676/1-A	Lab Control Sample	Total/NA	Solid	8021B	102676
LCSD 880-102676/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102676
890-7665-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	102676
890-7665-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102676

Prep Batch: 102676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Total/NA	Solid	5035	
MB 880-102676/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102676/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102676/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7665-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7665-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 102722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 102693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Total/NA	Solid	8015B NM	102712
MB 880-102712/1-A	Method Blank	Total/NA	Solid	8015B NM	102712
LCS 880-102712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102712
LCSD 880-102712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102712
890-7666-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	102712
890-7666-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102712

Prep Batch: 102712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Total/NA	Solid	8015NM Prep	
MB 880-102712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7666-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7666-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Soluble	Solid	DI Leach	
MB 880-102690/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102690/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102690/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 102690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7665-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7668-1	BH-228 (4)	Soluble	Solid	300.0	102690
MB 880-102690/1-A	Method Blank	Soluble	Solid	300.0	102690
LCS 880-102690/2-A	Lab Control Sample	Soluble	Solid	300.0	102690
LCSD 880-102690/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102690
890-7665-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	102690
890-7665-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102690

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Client Sample ID: BH-228 (4)

Date Collected: 02/12/25 08:50
Date Received: 02/12/25 15:01

Lab Sample ID: 890-7668-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102676	02/13/25 08:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102675	02/13/25 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102722	02/13/25 12:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102734	02/13/25 14:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	102712	02/13/25 12:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102693	02/13/25 14:27	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102690	02/13/25 08:10	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	102709	02/13/25 15:04	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7668-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7668-1	BH-228 (4)	Solid	02/12/25 08:50	02/12/25 15:01

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7668 Chain of Custody

Client Name:	Solaris	Site Manager:	Miguel Flores
Project Name:	Iceman SWD		575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-03085
Invoice to:	Solairs ATTN: Rob Kirk		
Receiving Laboratory:	Eurofins Laboratories	Sampler Signature:	Gary Allen
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	(Circle or Specify) BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH 228 (4')	2/12/2025	8:50		X			X			X		X												X				

Relinquished by: Date: 2.12.2025 Time:

Received by: Date: 2/12 Time: 15:01

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 3.8

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7668-1
SDG Number: Eddy County NM

Login Number: 7668
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7668-1
SDG Number: Eddy County NM

Login Number: 7668
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 02/13/25 07:46 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/17/2025 9:58:48 AM

JOB DESCRIPTION

ICEMAN SWD

JOB NUMBER

890-7670-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

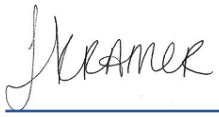
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/17/2025 9:58:48 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7670-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 16
QC Sample Results 18
QC Association Summary 24
Lab Chronicle 28
Certification Summary 32
Method Summary 33
Sample Summary 34
Chain of Custody 35
Receipt Checklists 41

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7670-1
Project/Site: ICEMAN SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7670-1

Job ID: 890-7670-1 Eurofins Carlsbad

Job Narrative
890-7670-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/13/2025 1:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-82 (890-7670-1), SW-83 (890-7670-2), SW-84 (890-7670-3), SW-85 (890-7670-4), SW-96 (890-7670-5), SW-97 (890-7670-6), SW-98 (890-7670-7), BH-254 (4) (890-7670-8), BH-255 (4) (890-7670-9), BH-256 (4) (890-7670-10), BH-257 (4) (890-7670-11) and BH-258 (4) (890-7670-12).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-102750 and analytical batch 880-102785 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-98 (890-7670-7), BH-254 (4) (890-7670-8), BH-255 (4) (890-7670-9), BH-256 (4) (890-7670-10), BH-257 (4) (890-7670-11), BH-258 (4) (890-7670-12) and (890-7671-A-9-D). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102788 and analytical batch 880-102781 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102788 and analytical batch 880-102781 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-82

Lab Sample ID: 890-7670-1
Matrix: Solid
Date Collected: 02/13/25 08:00
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 19:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 19:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 19:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/14/25 08:33	02/14/25 19:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/14/25 08:33	02/14/25 19:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/14/25 08:33*	*02/14/25 19:56*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*02/14/25 08:33*	*02/14/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/25 19:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/14/25 11:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/13/25 20:04	02/14/25 11:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		02/13/25 20:04	02/14/25 11:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/25 20:04	02/14/25 11:12	1
Total TPH	<49.9	U	49.9		mg/Kg		02/13/25 20:04	02/14/25 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*02/13/25 20:04*	*02/14/25 11:12*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/13/25 20:04*	*02/14/25 11:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		9.96		mg/Kg			02/14/25 13:38	1

Client Sample ID: SW-83

Lab Sample ID: 890-7670-2
Matrix: Solid
Date Collected: 02/13/25 08:05
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 20:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 20:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 20:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/14/25 08:33	02/14/25 20:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/14/25 08:33	02/14/25 20:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/14/25 08:33*	*02/14/25 20:16*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/14/25 08:33*	*02/14/25 20:16*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-83

Lab Sample ID: 890-7670-2
Date Collected: 02/13/25 08:05
Matrix: Solid
Date Received: 02/13/25 13:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/25 20:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/14/25 13:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/13/25 20:04	02/14/25 13:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		02/13/25 20:04	02/14/25 13:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/25 20:04	02/14/25 13:05	1
Total TPH	<49.9	U	49.9		mg/Kg		02/13/25 20:04	02/14/25 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:05*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.8**		9.98		mg/Kg			02/14/25 13:44	1

Client Sample ID: SW-84

Lab Sample ID: 890-7670-3
Date Collected: 02/13/25 08:10
Matrix: Solid
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 21:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 21:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 21:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 21:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 21:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/14/25 08:33*	*02/14/25 21:40*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*02/14/25 08:33*	*02/14/25 21:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/25 21:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/14/25 13:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:21	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-84

Lab Sample ID: 890-7670-3
Matrix: Solid
Date Collected: 02/13/25 08:10
Date Received: 02/13/25 13:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:21	1
Total TPH	<49.8	U	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:21*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.8**		10.1		mg/Kg			02/14/25 13:50	1

Client Sample ID: SW-85

Lab Sample ID: 890-7670-4
Matrix: Solid
Date Collected: 02/13/25 08:15
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 22:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 22:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 22:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 22:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 22:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*02/14/25 08:33*	*02/14/25 22:01*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/14/25 08:33*	*02/14/25 22:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/25 22:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/14/25 13:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *-	49.7		mg/Kg		02/13/25 20:04	02/14/25 13:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		02/13/25 20:04	02/14/25 13:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/13/25 20:04	02/14/25 13:37	1
Total TPH	<49.7	U	49.7		mg/Kg		02/13/25 20:04	02/14/25 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:37*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:37*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-85

Lab Sample ID: 890-7670-4
Matrix: Solid
Date Collected: 02/13/25 08:15
Date Received: 02/13/25 13:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		10.0		mg/Kg			02/14/25 14:09	1

Client Sample ID: SW-96

Lab Sample ID: 890-7670-5
Matrix: Solid
Date Collected: 02/13/25 08:20
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/14/25 08:33	02/14/25 22:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/14/25 08:33	02/14/25 22:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/14/25 08:33*	*02/14/25 22:21*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/14/25 08:33*	*02/14/25 22:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/25 22:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/14/25 13:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:53	1
Total TPH	<49.8	U	49.8		mg/Kg		02/13/25 20:04	02/14/25 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:53*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/13/25 20:04*	*02/14/25 13:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	225		9.96		mg/Kg			02/14/25 14:15	1

Client Sample ID: SW-97

Lab Sample ID: 890-7670-6
Matrix: Solid
Date Collected: 02/13/25 08:25
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:42	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-97

Date Collected: 02/13/25 08:25
Date Received: 02/13/25 13:49

Lab Sample ID: 890-7670-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/14/25 08:33	02/14/25 22:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/14/25 08:33	02/14/25 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/14/25 08:33*	*02/14/25 22:42*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/14/25 08:33*	*02/14/25 22:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/25 22:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/14/25 14:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	49.8		mg/Kg		02/13/25 20:04	02/14/25 14:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		02/13/25 20:04	02/14/25 14:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/25 20:04	02/14/25 14:10	1
Total TPH	<49.8	U	49.8		mg/Kg		02/13/25 20:04	02/14/25 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*02/13/25 20:04*	*02/14/25 14:10*	*1*
o-Terphenyl	*99*		*70 - 130*	*02/13/25 20:04*	*02/14/25 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		9.92		mg/Kg			02/14/25 14:33	1

Client Sample ID: SW-98

Date Collected: 02/13/25 08:30
Date Received: 02/13/25 13:49

Lab Sample ID: 890-7670-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 23:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 23:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/14/25 08:33*	*02/14/25 23:02*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/14/25 08:33*	*02/14/25 23:02*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-98

Lab Sample ID: 890-7670-7
Matrix: Solid
Date Collected: 02/13/25 08:30
Date Received: 02/13/25 13:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/25 23:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/14/25 13:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		02/14/25 09:32	02/14/25 13:30	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/14/25 09:32	02/14/25 13:30	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/14/25 09:32	02/14/25 13:30	1
Total TPH	<50.1	U	50.1		mg/Kg		02/14/25 09:32	02/14/25 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*02/14/25 09:32*	*02/14/25 13:30*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/14/25 09:32*	*02/14/25 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.0**		10.1		mg/Kg			02/14/25 14:39	1

Client Sample ID: BH-254 (4)

Lab Sample ID: 890-7670-8
Matrix: Solid
Date Collected: 02/13/25 08:35
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 23:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/25 08:33	02/14/25 23:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:33	02/14/25 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/14/25 08:33*	*02/14/25 23:23*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/14/25 08:33*	*02/14/25 23:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/25 23:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/14/25 13:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/14/25 09:32	02/14/25 13:45	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: BH-254 (4)

Lab Sample ID: 890-7670-8
Matrix: Solid
Date Collected: 02/13/25 08:35
Date Received: 02/13/25 13:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/14/25 09:32	02/14/25 13:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/14/25 09:32	02/14/25 13:45	1
Total TPH	<50.4	U	50.4		mg/Kg		02/14/25 09:32	02/14/25 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/14/25 09:32*	*02/14/25 13:45*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*02/14/25 09:32*	*02/14/25 13:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.3**		9.94		mg/Kg			02/14/25 14:45	1

Client Sample ID: BH-255 (4)

Lab Sample ID: 890-7670-9
Matrix: Solid
Date Collected: 02/13/25 08:40
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 23:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 23:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 23:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/14/25 08:33	02/14/25 23:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/14/25 08:33	02/14/25 23:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/14/25 08:33*	*02/14/25 23:43*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*02/14/25 08:33*	*02/14/25 23:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/25 23:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/14/25 13:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/14/25 09:32	02/14/25 13:59	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/14/25 09:32	02/14/25 13:59	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/14/25 09:32	02/14/25 13:59	1
Total TPH	<50.5	U	50.5		mg/Kg		02/14/25 09:32	02/14/25 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/14/25 09:32*	*02/14/25 13:59*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*02/14/25 09:32*	*02/14/25 13:59*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: BH-255 (4)

Lab Sample ID: 890-7670-9
Matrix: Solid
Date Collected: 02/13/25 08:40
Date Received: 02/13/25 13:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		9.96		mg/Kg			02/14/25 14:51	1

Client Sample ID: BH-256 (4)

Lab Sample ID: 890-7670-10
Matrix: Solid
Date Collected: 02/13/25 08:45
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/14/25 08:33	02/15/25 00:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/14/25 08:33	02/15/25 00:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*02/14/25 08:33*	*02/15/25 00:04*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/14/25 08:33*	*02/15/25 00:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/15/25 00:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/14/25 14:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/14/25 09:32	02/14/25 14:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/14/25 09:32	02/14/25 14:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/14/25 09:32	02/14/25 14:14	1
Total TPH	<49.7	U	49.7		mg/Kg		02/14/25 09:32	02/14/25 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/14/25 09:32*	*02/14/25 14:14*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*02/14/25 09:32*	*02/14/25 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		10.0		mg/Kg			02/14/25 14:58	1

Client Sample ID: BH-257 (4)

Lab Sample ID: 890-7670-11
Matrix: Solid
Date Collected: 02/13/25 08:50
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/15/25 00:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/15/25 00:24	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: BH-257 (4)

Lab Sample ID: 890-7670-11

Date Collected: 02/13/25 08:50
Matrix: Solid
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/15/25 00:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/14/25 08:33	02/15/25 00:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/14/25 08:33	02/15/25 00:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/15/25 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/14/25 08:33*	*02/15/25 00:24*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*02/14/25 08:33*	*02/15/25 00:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/15/25 00:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/14/25 14:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/14/25 09:32	02/14/25 14:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/14/25 09:32	02/14/25 14:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/14/25 09:32	02/14/25 14:29	1
Total TPH	<49.8	U	49.8		mg/Kg		02/14/25 09:32	02/14/25 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/14/25 09:32*	*02/14/25 14:29*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*02/14/25 09:32*	*02/14/25 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**238**		10.0		mg/Kg			02/14/25 15:04	1

Client Sample ID: BH-258 (4)

Lab Sample ID: 890-7670-12

Date Collected: 02/13/25 08:55
Matrix: Solid
Date Received: 02/13/25 13:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/14/25 08:33	02/15/25 00:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/14/25 08:33	02/15/25 00:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/14/25 08:33	02/15/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/14/25 08:33*	*02/15/25 00:45*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*02/14/25 08:33*	*02/15/25 00:45*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: BH-258 (4)

Lab Sample ID: 890-7670-12

Date Collected: 02/13/25 08:55

Matrix: Solid

Date Received: 02/13/25 13:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/15/25 00:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/14/25 14:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 14:43	1
Total TPH	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/14/25 09:32*	*02/14/25 14:43*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*02/14/25 09:32*	*02/14/25 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3400**		49.8		mg/Kg			02/14/25 15:10	5

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7669-A-21-B MS	Matrix Spike	110	100
890-7669-A-21-C MSD	Matrix Spike Duplicate	109	103
890-7670-1	SW-82	99	83
890-7670-2	SW-83	102	89
890-7670-3	SW-84	90	78
890-7670-4	SW-85	97	89
890-7670-5	SW-96	101	89
890-7670-6	SW-97	107	90
890-7670-7	SW-98	100	88
890-7670-8	BH-254 (4)	99	86
890-7670-9	BH-255 (4)	96	87
890-7670-10	BH-256 (4)	93	93
890-7670-11	BH-257 (4)	102	87
890-7670-12	BH-258 (4)	98	72
LCS 880-102772/1-A	Lab Control Sample	111	109
LCSD 880-102772/2-A	Lab Control Sample Dup	107	108
MB 880-102772/5-A	Method Blank	84	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7670-1	SW-82	111	87
890-7670-1 MS	SW-82	100	88
890-7670-1 MSD	SW-82	101	89
890-7670-2	SW-83	123	98
890-7670-3	SW-84	122	95
890-7670-4	SW-85	124	96
890-7670-5	SW-96	116	89
890-7670-6	SW-97	127	99
890-7670-7	SW-98	76	65 S1-
890-7670-8	BH-254 (4)	74	63 S1-
890-7670-9	BH-255 (4)	74	62 S1-
890-7670-10	BH-256 (4)	75	64 S1-
890-7670-11	BH-257 (4)	73	62 S1-
890-7670-12	BH-258 (4)	74	64 S1-
890-7671-A-9-E MS	Matrix Spike	74	60 S1-
890-7671-A-9-F MSD	Matrix Spike Duplicate	74	58 S1-
LCS 880-102750/2-A	Lab Control Sample	72	74
LCS 880-102788/2-A	Lab Control Sample	96	83
LCSD 880-102750/3-A	Lab Control Sample Dup	81	75
LCSD 880-102788/3-A	Lab Control Sample Dup	94	80
MB 880-102750/1-A	Method Blank	130	111
MB 880-102788/1-A	Method Blank	139 S1+	126

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102772/5-A
Matrix: Solid
Analysis Batch: 102814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 16:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 16:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/14/25 08:33	02/14/25 16:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/14/25 08:33	02/14/25 16:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 08:33	02/14/25 16:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*02/14/25 08:33*	*02/14/25 16:50*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/14/25 08:33*	*02/14/25 16:50*	*1*

Lab Sample ID: LCS 880-102772/1-A
Matrix: Solid
Analysis Batch: 102814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1115		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1162		mg/Kg		116	70 - 130
Toluene	0.100	0.1009		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2363		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1167		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-102772/2-A
Matrix: Solid
Analysis Batch: 102814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102772

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1119		mg/Kg		112	70 - 130	0	35
Ethylbenzene	0.100	0.1135		mg/Kg		114	70 - 130	2	35
Toluene	0.100	0.09776		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2293		mg/Kg		115	70 - 130	3	35
o-Xylene	0.100	0.1128		mg/Kg		113	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-7669-A-21-B MS
Matrix: Solid
Analysis Batch: 102814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1052		mg/Kg		105	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7669-A-21-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102814 — **Prep Batch: 102772**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.0998	0.09340		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2102		mg/Kg		105	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1047		mg/Kg		105	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7669-A-21-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102814 — **Prep Batch: 102772**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08813		mg/Kg		88	70 - 130	16	35
Ethylbenzene	<0.00200	U	0.0996	0.09204		mg/Kg		92	70 - 130	13	35
Toluene	<0.00200	U	0.0996	0.07962		mg/Kg		80	70 - 130	16	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1804		mg/Kg		91	70 - 130	15	35
o-Xylene	<0.00200	U	0.0996	0.08960		mg/Kg		90	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102750/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102785 — **Prep Batch: 102750**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1
Total TPH	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/13/25 20:04*	*02/14/25 09:06*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/13/25 20:04*	*02/14/25 09:06*	*1*

Lab Sample ID: LCS 880-102750/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102785 — **Prep Batch: 102750**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	558.2	*-	mg/Kg		56	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-102750/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102785 — **Prep Batch: 102750**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	639.2	*-	mg/Kg		64	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*72*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: LCSD 880-102750/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102785 — **Prep Batch: 102750**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	669.9	*-	mg/Kg		67	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	646.4	*-	mg/Kg		65	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 890-7670-1 MS — **Client Sample ID: SW-82**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102785 — **Prep Batch: 102750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	996	884.9		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *-	996	890.9		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 890-7670-1 MSD — **Client Sample ID: SW-82**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102785 — **Prep Batch: 102750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	996	915.8		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U *-	996	895.8		mg/Kg		90	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-102788/1-A
Matrix: Solid
Analysis Batch: 102781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 09:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 09:25	1
Total TPH	<50.0	U	50.0		mg/Kg		02/14/25 09:32	02/14/25 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*02/14/25 09:32*	*02/14/25 09:25*	*1*
o-Terphenyl	*126*		*70 - 130*	*02/14/25 09:32*	*02/14/25 09:25*	*1*

Lab Sample ID: LCS 880-102788/2-A
Matrix: Solid
Analysis Batch: 102781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102788

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1151		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1105		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: LCSD 880-102788/3-A
Matrix: Solid
Analysis Batch: 102781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102788

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1125		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1081		mg/Kg		108	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 890-7671-A-9-E MS
Matrix: Solid
Analysis Batch: 102781

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	627.6	F1	mg/Kg		63	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	673.5	F1	mg/Kg		66	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7671-A-9-E MS
Matrix: Solid
Analysis Batch: 102781

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102788

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	60	S1-	70 - 130

Lab Sample ID: 890-7671-A-9-F MSD
Matrix: Solid
Analysis Batch: 102781

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 102788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	588.1	F1	mg/Kg		59	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	628.5	F1	mg/Kg		61	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	58	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102777/1-A
Matrix: Solid
Analysis Batch: 102786

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/14/25 12:07	1

Lab Sample ID: LCS 880-102777/2-A
Matrix: Solid
Analysis Batch: 102786

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.8		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-102777/3-A
Matrix: Solid
Analysis Batch: 102786

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7670-3 MS
Matrix: Solid
Analysis Batch: 102786

Client Sample ID: SW-84
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	14.8		252	279.6		mg/Kg		105	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7670-3 MSD
Matrix: Solid
Analysis Batch: 102786

Client Sample ID: SW-84
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.8		252	287.0		mg/Kg		108	90 - 110	3	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

GC VOA

Prep Batch: 102772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Total/NA	Solid	5035	
890-7670-2	SW-83	Total/NA	Solid	5035	
890-7670-3	SW-84	Total/NA	Solid	5035	
890-7670-4	SW-85	Total/NA	Solid	5035	
890-7670-5	SW-96	Total/NA	Solid	5035	
890-7670-6	SW-97	Total/NA	Solid	5035	
890-7670-7	SW-98	Total/NA	Solid	5035	
890-7670-8	BH-254 (4)	Total/NA	Solid	5035	
890-7670-9	BH-255 (4)	Total/NA	Solid	5035	
890-7670-10	BH-256 (4)	Total/NA	Solid	5035	
890-7670-11	BH-257 (4)	Total/NA	Solid	5035	
890-7670-12	BH-258 (4)	Total/NA	Solid	5035	
MB 880-102772/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102772/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102772/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7669-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7669-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 102814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Total/NA	Solid	8021B	102772
890-7670-2	SW-83	Total/NA	Solid	8021B	102772
890-7670-3	SW-84	Total/NA	Solid	8021B	102772
890-7670-4	SW-85	Total/NA	Solid	8021B	102772
890-7670-5	SW-96	Total/NA	Solid	8021B	102772
890-7670-6	SW-97	Total/NA	Solid	8021B	102772
890-7670-7	SW-98	Total/NA	Solid	8021B	102772
890-7670-8	BH-254 (4)	Total/NA	Solid	8021B	102772
890-7670-9	BH-255 (4)	Total/NA	Solid	8021B	102772
890-7670-10	BH-256 (4)	Total/NA	Solid	8021B	102772
890-7670-11	BH-257 (4)	Total/NA	Solid	8021B	102772
890-7670-12	BH-258 (4)	Total/NA	Solid	8021B	102772
MB 880-102772/5-A	Method Blank	Total/NA	Solid	8021B	102772
LCS 880-102772/1-A	Lab Control Sample	Total/NA	Solid	8021B	102772
LCSD 880-102772/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102772
890-7669-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	102772
890-7669-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102772

Analysis Batch: 102936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Total/NA	Solid	Total BTEX	
890-7670-2	SW-83	Total/NA	Solid	Total BTEX	
890-7670-3	SW-84	Total/NA	Solid	Total BTEX	
890-7670-4	SW-85	Total/NA	Solid	Total BTEX	
890-7670-5	SW-96	Total/NA	Solid	Total BTEX	
890-7670-6	SW-97	Total/NA	Solid	Total BTEX	
890-7670-7	SW-98	Total/NA	Solid	Total BTEX	
890-7670-8	BH-254 (4)	Total/NA	Solid	Total BTEX	
890-7670-9	BH-255 (4)	Total/NA	Solid	Total BTEX	
890-7670-10	BH-256 (4)	Total/NA	Solid	Total BTEX	
890-7670-11	BH-257 (4)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

GC VOA (Continued)

Analysis Batch: 102936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-12	BH-258 (4)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Total/NA	Solid	8015NM Prep	
890-7670-2	SW-83	Total/NA	Solid	8015NM Prep	
890-7670-3	SW-84	Total/NA	Solid	8015NM Prep	
890-7670-4	SW-85	Total/NA	Solid	8015NM Prep	
890-7670-5	SW-96	Total/NA	Solid	8015NM Prep	
890-7670-6	SW-97	Total/NA	Solid	8015NM Prep	
MB 880-102750/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102750/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102750/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7670-1 MS	SW-82	Total/NA	Solid	8015NM Prep	
890-7670-1 MSD	SW-82	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-7	SW-98	Total/NA	Solid	8015B NM	102788
890-7670-8	BH-254 (4)	Total/NA	Solid	8015B NM	102788
890-7670-9	BH-255 (4)	Total/NA	Solid	8015B NM	102788
890-7670-10	BH-256 (4)	Total/NA	Solid	8015B NM	102788
890-7670-11	BH-257 (4)	Total/NA	Solid	8015B NM	102788
890-7670-12	BH-258 (4)	Total/NA	Solid	8015B NM	102788
MB 880-102788/1-A	Method Blank	Total/NA	Solid	8015B NM	102788
LCS 880-102788/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102788
LCSD 880-102788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102788
890-7671-A-9-E MS	Matrix Spike	Total/NA	Solid	8015B NM	102788
890-7671-A-9-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102788

Analysis Batch: 102785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Total/NA	Solid	8015B NM	102750
890-7670-2	SW-83	Total/NA	Solid	8015B NM	102750
890-7670-3	SW-84	Total/NA	Solid	8015B NM	102750
890-7670-4	SW-85	Total/NA	Solid	8015B NM	102750
890-7670-5	SW-96	Total/NA	Solid	8015B NM	102750
890-7670-6	SW-97	Total/NA	Solid	8015B NM	102750
MB 880-102750/1-A	Method Blank	Total/NA	Solid	8015B NM	102750
LCS 880-102750/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102750
LCSD 880-102750/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102750
890-7670-1 MS	SW-82	Total/NA	Solid	8015B NM	102750
890-7670-1 MSD	SW-82	Total/NA	Solid	8015B NM	102750

Prep Batch: 102788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-7	SW-98	Total/NA	Solid	8015NM Prep	
890-7670-8	BH-254 (4)	Total/NA	Solid	8015NM Prep	
890-7670-9	BH-255 (4)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

GC Semi VOA (Continued)

Prep Batch: 102788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-10	BH-256 (4)	Total/NA	Solid	8015NM Prep	
890-7670-11	BH-257 (4)	Total/NA	Solid	8015NM Prep	
890-7670-12	BH-258 (4)	Total/NA	Solid	8015NM Prep	
MB 880-102788/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102788/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7671-A-9-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7671-A-9-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Total/NA	Solid	8015 NM	
890-7670-2	SW-83	Total/NA	Solid	8015 NM	
890-7670-3	SW-84	Total/NA	Solid	8015 NM	
890-7670-4	SW-85	Total/NA	Solid	8015 NM	
890-7670-5	SW-96	Total/NA	Solid	8015 NM	
890-7670-6	SW-97	Total/NA	Solid	8015 NM	
890-7670-7	SW-98	Total/NA	Solid	8015 NM	
890-7670-8	BH-254 (4)	Total/NA	Solid	8015 NM	
890-7670-9	BH-255 (4)	Total/NA	Solid	8015 NM	
890-7670-10	BH-256 (4)	Total/NA	Solid	8015 NM	
890-7670-11	BH-257 (4)	Total/NA	Solid	8015 NM	
890-7670-12	BH-258 (4)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Soluble	Solid	DI Leach	
890-7670-2	SW-83	Soluble	Solid	DI Leach	
890-7670-3	SW-84	Soluble	Solid	DI Leach	
890-7670-4	SW-85	Soluble	Solid	DI Leach	
890-7670-5	SW-96	Soluble	Solid	DI Leach	
890-7670-6	SW-97	Soluble	Solid	DI Leach	
890-7670-7	SW-98	Soluble	Solid	DI Leach	
890-7670-8	BH-254 (4)	Soluble	Solid	DI Leach	
890-7670-9	BH-255 (4)	Soluble	Solid	DI Leach	
890-7670-10	BH-256 (4)	Soluble	Solid	DI Leach	
890-7670-11	BH-257 (4)	Soluble	Solid	DI Leach	
890-7670-12	BH-258 (4)	Soluble	Solid	DI Leach	
MB 880-102777/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102777/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102777/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7670-3 MS	SW-84	Soluble	Solid	DI Leach	
890-7670-3 MSD	SW-84	Soluble	Solid	DI Leach	

Analysis Batch: 102786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-1	SW-82	Soluble	Solid	300.0	102777
890-7670-2	SW-83	Soluble	Solid	300.0	102777
890-7670-3	SW-84	Soluble	Solid	300.0	102777

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

HPLC/IC (Continued)

Analysis Batch: 102786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7670-4	SW-85	Soluble	Solid	300.0	102777
890-7670-5	SW-96	Soluble	Solid	300.0	102777
890-7670-6	SW-97	Soluble	Solid	300.0	102777
890-7670-7	SW-98	Soluble	Solid	300.0	102777
890-7670-8	BH-254 (4)	Soluble	Solid	300.0	102777
890-7670-9	BH-255 (4)	Soluble	Solid	300.0	102777
890-7670-10	BH-256 (4)	Soluble	Solid	300.0	102777
890-7670-11	BH-257 (4)	Soluble	Solid	300.0	102777
890-7670-12	BH-258 (4)	Soluble	Solid	300.0	102777
MB 880-102777/1-A	Method Blank	Soluble	Solid	300.0	102777
LCS 880-102777/2-A	Lab Control Sample	Soluble	Solid	300.0	102777
LCSD 880-102777/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102777
890-7670-3 MS	SW-84	Soluble	Solid	300.0	102777
890-7670-3 MSD	SW-84	Soluble	Solid	300.0	102777

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-82

Lab Sample ID: 890-7670-1
Matrix: Solid
Date Collected: 02/13/25 08:00
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 19:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 11:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102750	02/13/25 20:04	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102785	02/14/25 11:12	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 13:38	CH	EET MID

Client Sample ID: SW-83

Lab Sample ID: 890-7670-2
Matrix: Solid
Date Collected: 02/13/25 08:05
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 20:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 13:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102750	02/13/25 20:04	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102785	02/14/25 13:05	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 13:44	CH	EET MID

Client Sample ID: SW-84

Lab Sample ID: 890-7670-3
Matrix: Solid
Date Collected: 02/13/25 08:10
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 21:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 21:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 13:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102750	02/13/25 20:04	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102785	02/14/25 13:21	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 13:50	CH	EET MID

Client Sample ID: SW-85

Lab Sample ID: 890-7670-4
Matrix: Solid
Date Collected: 02/13/25 08:15
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 22:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 22:01	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-85

Lab Sample ID: 890-7670-4
Matrix: Solid
Date Collected: 02/13/25 08:15
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102848	02/14/25 13:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102750	02/13/25 20:04	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102785	02/14/25 13:37	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 14:09	CH	EET MID

Client Sample ID: SW-96

Lab Sample ID: 890-7670-5
Matrix: Solid
Date Collected: 02/13/25 08:20
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 22:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 22:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 13:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102750	02/13/25 20:04	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102785	02/14/25 13:53	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 14:15	CH	EET MID

Client Sample ID: SW-97

Lab Sample ID: 890-7670-6
Matrix: Solid
Date Collected: 02/13/25 08:25
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 22:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 14:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102750	02/13/25 20:04	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102785	02/14/25 14:10	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 14:33	CH	EET MID

Client Sample ID: SW-98

Lab Sample ID: 890-7670-7
Matrix: Solid
Date Collected: 02/13/25 08:30
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 23:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 13:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	102788	02/14/25 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102781	02/14/25 13:30	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Client Sample ID: SW-98

Lab Sample ID: 890-7670-7
Matrix: Solid
Date Collected: 02/13/25 08:30
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 14:39	CH	EET MID

Client Sample ID: BH-254 (4)

Lab Sample ID: 890-7670-8
Matrix: Solid
Date Collected: 02/13/25 08:35
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 23:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 23:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 13:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	102788	02/14/25 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102781	02/14/25 13:45	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 14:45	CH	EET MID

Client Sample ID: BH-255 (4)

Lab Sample ID: 890-7670-9
Matrix: Solid
Date Collected: 02/13/25 08:40
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/14/25 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/14/25 23:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	102788	02/14/25 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102781	02/14/25 13:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 14:51	CH	EET MID

Client Sample ID: BH-256 (4)

Lab Sample ID: 890-7670-10
Matrix: Solid
Date Collected: 02/13/25 08:45
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/15/25 00:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/15/25 00:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 14:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102788	02/14/25 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102781	02/14/25 14:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 14:58	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7670-1
Project/Site: ICEMAN SWD

Client Sample ID: BH-257 (4)
Lab Sample ID: 890-7670-11
Date Collected: 02/13/25 08:50
Matrix: Solid
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/15/25 00:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/15/25 00:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 14:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102788	02/14/25 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102781	02/14/25 14:29	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102786	02/14/25 15:04	CH	EET MID

Client Sample ID: BH-258 (4)
Lab Sample ID: 890-7670-12
Date Collected: 02/13/25 08:55
Matrix: Solid
Date Received: 02/13/25 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	102772	02/14/25 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102814	02/15/25 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102936	02/15/25 00:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102848	02/14/25 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	102788	02/14/25 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102781	02/14/25 14:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102777	02/14/25 08:46	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	102786	02/14/25 15:10	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7670-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7670-1	SW-82	Solid	02/13/25 08:00	02/13/25 13:49
890-7670-2	SW-83	Solid	02/13/25 08:05	02/13/25 13:49
890-7670-3	SW-84	Solid	02/13/25 08:10	02/13/25 13:49
890-7670-4	SW-85	Solid	02/13/25 08:15	02/13/25 13:49
890-7670-5	SW-96	Solid	02/13/25 08:20	02/13/25 13:49
890-7670-6	SW-97	Solid	02/13/25 08:25	02/13/25 13:49
890-7670-7	SW-98	Solid	02/13/25 08:30	02/13/25 13:49
890-7670-8	BH-254 (4)	Solid	02/13/25 08:35	02/13/25 13:49
890-7670-9	BH-255 (4)	Solid	02/13/25 08:40	02/13/25 13:49
890-7670-10	BH-256 (4)	Solid	02/13/25 08:45	02/13/25 13:49
890-7670-11	BH-257 (4)	Solid	02/13/25 08:50	02/13/25 13:49
890-7670-12	BH-258 (4)	Solid	02/13/25 08:55	02/13/25 13:49

Page 1295 of 1592

2/17/2025

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7670 Chain of Custody

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate TDS	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-82	2/13/2025	8:00		X			X			X		X												X									
	SW-83	2/13/2025	8:05		X			X			X		X												X									
	SW-84	2/13/2025	8:10		X			X			X		X												X									
	SW-85	2/13/2025	8:15		X			X			X		X												X									
	SW-96	2/13/2025	8:20		X			X			X		X												X									
	SW-97	2/13/2025	8:25		X			X			X		X												X									
	SW-98	2/13/2025	8:30		X			X			X		X												X									
	BH-254 (4')	2/13/2025	8:35		X			X			X		X												X									
	BH-255 (4')	2/13/2025	8:40		X			X			X		X												X									
	BH-256 (4')	2/13/2025	8:45		X			X			X		X												X									

Relinquished by:	Date: 2.13.2025	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 2/13 Time: 13:46

LAB USE ONLY

Sample Temperature: 4.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr ~~72 hr~~

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M(GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-257 (4')	2/13/2025	8:50		X			X			X		X	X													X					
	BH-258 (4')	2/13/2025	8:55		X			X			X		X	X													X					

Relinquished by: 2.13.2025	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 2/13 Time: 13:10

LAB USE ONLY

Sample Temperature: 11.0

REMARKS:

- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4590.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7670-1
Address: 1211 W. Florida Ave,	Due Date Requested: 2/18/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW-82 (890-7670-1)	2/13/25	08:00 Mountain	G	Solid			X	X	X	X	X	1	
SW-83 (890-7670-2)	2/13/25	08:05 Mountain	G	Solid			X	X	X	X	X	1	
SW-84 (890-7670-3)	2/13/25	08:10 Mountain	G	Solid			X	X	X	X	X	1	
SW-85 (890-7670-4)	2/13/25	08:15 Mountain	G	Solid			X	X	X	X	X	1	
SW-96 (890-7670-5)	2/13/25	08:20 Mountain	G	Solid			X	X	X	X	X	1	
SW-97 (890-7670-6)	2/13/25	08:25 Mountain	G	Solid			X	X	X	X	X	1	
SW-98 (890-7670-7)	2/13/25	08:30 Mountain	G	Solid			X	X	X	X	X	1	
BH-254 (4) (890-7670-8)	2/13/25	08:35 Mountain	G	Solid			X	X	X	X	X	1	
BH-255 (4) (890-7670-9)	2/13/25	08:40 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/13 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 1297 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
2/17/2025
Page 37 of 42
Released to Imaging: 6/2/2026 11:27:44 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4589.4
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 4 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7669-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 2/19/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: basilisk state com 1h	Project #: 89000231			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
SW-11 (890-7669-28)	2/13/25	Central	G	Solid			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/13 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 1298 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
2/17/2025
Page 38 of 42
Released to Imaging: 6/2/2026 11:27:44 AM

Page 1299 of 1592

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4589.3
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 3 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7669-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 2/19/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: basilisk state com 1h	Project #: 89000231			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
SW-2 (890-7669-19)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-3 (890-7669-20)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-4 (890-7669-21)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-5 (890-7669-22)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-6 (890-7669-23)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-7 (890-7669-24)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-8 (890-7669-25)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-9 (890-7669-26)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-10 (890-7669-27)	2/13/25	Central	G	Solid			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 2/13 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM
2/17/2025
Page 39 of 42

Page 1300 of 1592

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4589.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7669-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 2/19/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: basilisk state com 1h	Project #: 89000231			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
CS-10 (890-7669-10)	2/13/25	Central	G	Solid			X	X	X	X	1	
CS-11 (890-7669-11)	2/13/25	Central	G	Solid			X	X	X	X	1	
CS-12 (890-7669-12)	2/13/25	Central	G	Solid			X	X	X	X	1	
CS-13 (890-7669-13)	2/13/25	Central	G	Solid			X	X	X	X	1	
CS-14 (890-7669-14)	2/13/25	Central	G	Solid			X	X	X	X	1	
CS-15 (890-7669-15)	2/13/25	Central	G	Solid			X	X	X	X	1	
CS-16 (890-7669-16)	2/13/25	Central	G	Solid			X	X	X	X	1	
CS-17 (890-7669-17)	2/13/25	Central	G	Solid			X	X	X	X	1	
SW-1 (890-7669-18)	2/13/25	Central	G	Solid			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 2/13 1630	Company	Received by:		Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Kendell Lee		Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 10/10/2024

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7670-1

Login Number: 7670

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7670-1

Login Number: 7670
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 02/13/25 08:52 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/14/2025 3:09:17 PM

JOB DESCRIPTION

ICEMAN SWD
Eddy County NM

JOB NUMBER

890-7672-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

my EOL

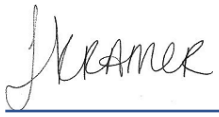
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/14/2025 3:09:17 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7672-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 11
Lab Chronicle 13
Certification Summary 14
Method Summary 15
Sample Summary 16
Chain of Custody 17
Receipt Checklists 20

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7672-1

Job ID: 890-7672-1 Eurofins Carlsbad

Job Narrative
890-7672-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 2/13/2025 1:49 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW-81 (890-7672-1).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-102750 and analytical batch 880-102785 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Client Sample ID: SW-81

Date Collected: 02/13/25 10:00
Date Received: 02/13/25 13:49

Lab Sample ID: 890-7672-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:21	02/14/25 13:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:21	02/14/25 13:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/25 08:21	02/14/25 13:18	1
Xylenes, Total	**0.00918**		0.00398		mg/Kg		02/14/25 08:21	02/14/25 13:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/25 08:21	02/14/25 13:18	1
o-Xylene	**0.00918**		0.00199		mg/Kg		02/14/25 08:21	02/14/25 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*02/14/25 08:21*	*02/14/25 13:18*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/14/25 08:21*	*02/14/25 13:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00918**		0.00398		mg/Kg			02/14/25 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/14/25 11:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *-	49.7		mg/Kg		02/13/25 20:04	02/14/25 11:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		02/13/25 20:04	02/14/25 11:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/13/25 20:04	02/14/25 11:59	1
Total TPH	<49.7	U	49.7		mg/Kg		02/13/25 20:04	02/14/25 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*02/13/25 20:04*	*02/14/25 11:59*	*1*
o-Terphenyl	*85*		*70 - 130*	*02/13/25 20:04*	*02/14/25 11:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**131**		10.0		mg/Kg			02/14/25 11:28	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7672-1	SW-81	123	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7670-A-1-B MS	Matrix Spike	100	88
890-7670-A-1-C MSD	Matrix Spike Duplicate	101	89
890-7672-1	SW-81	111	85
LCS 880-102750/2-A	Lab Control Sample	72	74
LCSD 880-102750/3-A	Lab Control Sample Dup	81	75
MB 880-102750/1-A	Method Blank	130	111

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102750/1-A
Matrix: Solid
Analysis Batch: 102785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1
Total TPH	<50.0	U	50.0		mg/Kg		02/13/25 20:04	02/14/25 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/13/25 20:04*	*02/14/25 09:06*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/13/25 20:04*	*02/14/25 09:06*	*1*

Lab Sample ID: LCS 880-102750/2-A
Matrix: Solid
Analysis Batch: 102785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102750

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	558.2	*-	mg/Kg		56	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	639.2	*-	mg/Kg		64	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*72*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: LCSD 880-102750/3-A
Matrix: Solid
Analysis Batch: 102785

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	669.9	*-	mg/Kg		67	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	646.4	*-	mg/Kg		65	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 890-7670-A-1-B MS
Matrix: Solid
Analysis Batch: 102785

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	996	884.9		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *-	996	890.9		mg/Kg		89	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7670-A-1-B MS
Matrix: Solid
Analysis Batch: 102785

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102750

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-7670-A-1-C MSD
Matrix: Solid
Analysis Batch: 102785

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 102750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	996	915.8		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U *-	996	895.8		mg/Kg		90	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102761/1-A
Matrix: Solid
Analysis Batch: 102775

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/14/25 09:26	1

Lab Sample ID: LCS 880-102761/2-A
Matrix: Solid
Analysis Batch: 102775

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-102761/3-A
Matrix: Solid
Analysis Batch: 102775

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.9		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-7671-A-15-C MS
Matrix: Solid
Analysis Batch: 102775

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	102		249	367.3		mg/Kg		107	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7671-A-15-D MSD
Matrix: Solid
Analysis Batch: 102775

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	102		249	368.1		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 102762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Total/NA	Solid	8021B	102770

Prep Batch: 102770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Total/NA	Solid	5035	

Analysis Batch: 102851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Total/NA	Solid	8015NM Prep	
MB 880-102750/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102750/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102750/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7670-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7670-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Total/NA	Solid	8015B NM	102750
MB 880-102750/1-A	Method Blank	Total/NA	Solid	8015B NM	102750
LCS 880-102750/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102750
LCSD 880-102750/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102750
890-7670-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	102750
890-7670-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102750

Analysis Batch: 102849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Soluble	Solid	DI Leach	
MB 880-102761/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102761/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102761/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7671-A-15-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7671-A-15-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7672-1	SW-81	Soluble	Solid	300.0	102761
MB 880-102761/1-A	Method Blank	Soluble	Solid	300.0	102761
LCS 880-102761/2-A	Lab Control Sample	Soluble	Solid	300.0	102761
LCSD 880-102761/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102761
890-7671-A-15-C MS	Matrix Spike	Soluble	Solid	300.0	102761

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 102775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7671-A-15-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102761

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Client Sample ID: SW-81

Date Collected: 02/13/25 10:00
Date Received: 02/13/25 13:49

Lab Sample ID: 890-7672-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102770	02/14/25 08:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102762	02/14/25 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102851	02/14/25 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102849	02/14/25 11:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102750	02/13/25 20:04	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102785	02/14/25 11:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102761	02/14/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102775	02/14/25 11:28	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7672-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7672-1	SW-81	Solid	02/13/25 10:00	02/13/25 13:49

Page 1319 of 1592

2/14/2025

Page 17 of 21

Analysis Request of Chain of Custody Record

890-7672 Chain of Custody

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate TDS	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance			Hold
	SW-81	2/13/2025	10:00		X				X					X		X													X							

Relinquished by:	Date: 2.13.2025	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 2/13 Time: 12:49

LAB USE ONLY

Sample Temperature: 4.0

REMARKS:

- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4592.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7672-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 2/14/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: ICEMAN SWD	Project #: 88001972			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX - LL	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW-81 (890-7672-1)	2/13/25	10:00 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/13 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 1320 of 1592
Received by OCD: 6/1/2026 3:55:55 PM
2/14/2025
Page 18 of 21
Released to Imaging: 6/2/2026 11:27:44 AM

Page 1321 of 1592

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Allen, Jodi L	Carrier Tracking No(s): N/A	COC No: 890-4591.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jodi.Allen@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7671-1
Address: 1211 W. Florida Ave,	Due Date Requested: 2/14/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CLOSE ENCOUNTERS 301 H	Project #: 89000037			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX - LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SS 712 @ 7' (890-7671-10)	2/13/25	10:56 Central	G	Solid			X	X	X	X	X	1	
SS 681 @ 7' (890-7671-11)	2/13/25	11:17 Central	G	Solid			X	X	X	X	X	1	
SS 672 @ 7' (890-7671-12)	2/13/25	11:32 Central	G	Solid			X	X	X	X	X	1	
SS 565 @ 7' (890-7671-13)	2/13/25	11:48 Central	G	Solid			X	X	X	X	X	1	
SS 543 @ 7' (890-7671-14)	2/13/25	12:14 Central	G	Solid			X	X	X	X	X	1	
SS 552 @ 7' (890-7671-15)	2/13/25	12:39 Central	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/13 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7672-1
SDG Number: Eddy County NM

Login Number: 7672
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7672-1
SDG Number: Eddy County NM

Login Number: 7672
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 02/13/25 08:52 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/17/2025 2:58:40 PM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7673-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

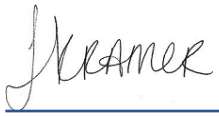
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/17/2025 2:58:40 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7673-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 14
Lab Chronicle 16
Certification Summary 17
Method Summary 18
Sample Summary 19
Chain of Custody 20
Receipt Checklists 21

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7673-1

Job ID: 890-7673-1 Eurofins Carlsbad

Job Narrative
890-7673-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 2/14/2025 3:12 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102865 and analytical batch 880-102910 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102892 and analytical batch 880-102928 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-70 (890-7673-1), (890-7673-A-1-E MS) and (890-7673-A-1-F MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102908 and analytical batch 880-102918 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Client Sample ID: SW-70

Date Collected: 02/14/25 12:00
Date Received: 02/14/25 15:12

Lab Sample ID: 890-7673-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 16:52	02/17/25 11:36	1
Ethylbenzene	**0.0676**	**F1**	0.00200		mg/Kg		02/14/25 16:52	02/17/25 11:36	1
Toluene	**0.103**		0.00200		mg/Kg		02/14/25 16:52	02/17/25 11:36	1
Xylenes, Total	<0.0805	U	0.0805		mg/Kg		02/17/25 17:00	02/17/25 14:52	20
m-Xylene & p-Xylene	<0.0805	U	0.0805		mg/Kg		02/17/25 17:00	02/17/25 14:52	20
o-Xylene	<0.0402	U	0.0402		mg/Kg		02/17/25 17:00	02/17/25 14:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*657*	*S1+*	*70 - 130*	*02/14/25 16:52*	*02/17/25 11:36*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*02/14/25 16:52*	*02/17/25 11:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.171**		0.0805		mg/Kg			02/17/25 14:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/17/25 11:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		02/16/25 20:29	02/17/25 11:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		02/16/25 20:29	02/17/25 11:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 11:11	1
Total TPH	<50.0	U F1	50.0		mg/Kg		02/16/25 20:29	02/17/25 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/16/25 20:29*	*02/17/25 11:11*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/16/25 20:29*	*02/17/25 11:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**264**		9.92		mg/Kg			02/17/25 13:09	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7673-1	SW-70	657 S1+	112
890-7673-1 MS	SW-70	531 S1+	112
890-7673-1 MSD	SW-70	490 S1+	118
890-7675-A-8-C MS	Matrix Spike	101	109
890-7675-A-8-D MSD	Matrix Spike Duplicate	101	104
LCS 880-102865/1-A	Lab Control Sample	90	103
LCS 880-102919/1-A	Lab Control Sample	97	108
LCSD 880-102865/2-A	Lab Control Sample Dup	97	102
LCSD 880-102919/2-A	Lab Control Sample Dup	97	109
MB 880-102865/5-A	Method Blank	110	90
MB 880-102919/5-A	Method Blank	100	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7673-1	SW-70	73	65 S1-
890-7673-1 MS	SW-70	77	64 S1-
890-7673-1 MSD	SW-70	77	64 S1-
LCS 880-102892/2-A	Lab Control Sample	96	82
LCSD 880-102892/3-A	Lab Control Sample Dup	95	80
MB 880-102892/1-A	Method Blank	129	117

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102865/5-A
Matrix: Solid
Analysis Batch: 102910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/25 16:52	02/17/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/25 16:52	02/17/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/25 16:52	02/17/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/14/25 16:52	02/17/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/14/25 16:52	02/17/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/25 16:52	02/17/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/14/25 16:52*	*02/17/25 11:14*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/14/25 16:52*	*02/17/25 11:14*	*1*

Lab Sample ID: LCS 880-102865/1-A
Matrix: Solid
Analysis Batch: 102910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1058		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.09461		mg/Kg		95	70 - 130
Toluene	0.100	0.1039		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.1944		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09769		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-102865/2-A
Matrix: Solid
Analysis Batch: 102910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102865

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1051		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.09376		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.1028		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1938		mg/Kg		97	70 - 130	0	35
o-Xylene	0.100	0.09748		mg/Kg		97	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7673-1 MS
Matrix: Solid
Analysis Batch: 102910

Client Sample ID: SW-70
Prep Type: Total/NA
Prep Batch: 102865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1234		mg/Kg		124	70 - 130
Ethylbenzene	0.0676	F1	0.0998	0.1194	F1	mg/Kg		52	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7673-1 MS
Matrix: Solid
Analysis Batch: 102910

Client Sample ID: SW-70
Prep Type: Total/NA
Prep Batch: 102865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.103		0.0998	0.1884		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*531*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 890-7673-1 MSD
Matrix: Solid
Analysis Batch: 102910

Client Sample ID: SW-70
Prep Type: Total/NA
Prep Batch: 102865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1254		mg/Kg		126	70 - 130	2	35
Ethylbenzene	0.0676	F1	0.0996	0.1689		mg/Kg		102	70 - 130	34	35
Toluene	0.103		0.0996	0.1822		mg/Kg		80	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*490*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: MB 880-102919/5-A
Matrix: Solid
Analysis Batch: 102913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/17/25 08:45*	*02/17/25 11:25*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/17/25 08:45*	*02/17/25 11:25*	*1*

Lab Sample ID: LCS 880-102919/1-A
Matrix: Solid
Analysis Batch: 102913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1062		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130
Toluene	0.100	0.09394		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.2132		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-102919/1-A
Matrix: Solid
Analysis Batch: 102913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102919

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-102919/2-A
Matrix: Solid
Analysis Batch: 102913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102919

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1067		mg/Kg		107	70 - 130	1	35
Ethylbenzene			0.100	0.1022		mg/Kg		102	70 - 130	0	35
Toluene			0.100	0.09401		mg/Kg		94	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2127		mg/Kg		106	70 - 130	0	35
o-Xylene			0.100	0.1060		mg/Kg		106	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-7675-A-8-C MS
Matrix: Solid
Analysis Batch: 102913

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.1008		mg/Kg		101	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.08996		mg/Kg		90	70 - 130		
Toluene	<0.00200	U	0.0998	0.08689		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1869		mg/Kg		94	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.09294		mg/Kg		93	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-7675-A-8-D MSD
Matrix: Solid
Analysis Batch: 102913

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 102919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09010		mg/Kg		90	70 - 130	11	35
Ethylbenzene	<0.00200	U	0.0996	0.07828		mg/Kg		79	70 - 130	14	35
Toluene	<0.00200	U	0.0996	0.07755		mg/Kg		78	70 - 130	11	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1616		mg/Kg		81	70 - 130	15	35
o-Xylene	<0.00200	U	0.0996	0.08355		mg/Kg		84	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-102892/1-A
Matrix: Solid
Analysis Batch: 102928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 09:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 09:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 09:20	1
Total TPH	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*02/16/25 20:29*	*02/17/25 09:20*	*1*
o-Terphenyl	*117*		*70 - 130*	*02/16/25 20:29*	*02/17/25 09:20*	*1*

Lab Sample ID: LCS 880-102892/2-A
Matrix: Solid
Analysis Batch: 102928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1115		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: LCSD 880-102892/3-A
Matrix: Solid
Analysis Batch: 102928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1130		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 890-7673-1 MS
Matrix: Solid
Analysis Batch: 102928

Client Sample ID: SW-70
Prep Type: Total/NA
Prep Batch: 102892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	686.5	F1	mg/Kg		69	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	658.8	F1	mg/Kg		66	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7673-1 MS
Matrix: Solid
Analysis Batch: 102928

Client Sample ID: SW-70
Prep Type: Total/NA
Prep Batch: 102892

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*64*	*S1-*	*70 - 130*

Lab Sample ID: 890-7673-1 MSD
Matrix: Solid
Analysis Batch: 102928

Client Sample ID: SW-70
Prep Type: Total/NA
Prep Batch: 102892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	689.7	F1	mg/Kg		69	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	650.7	F1	mg/Kg		65	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*64*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102908/1-A
Matrix: Solid
Analysis Batch: 102918

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/17/25 09:56	1

Lab Sample ID: LCS 880-102908/2-A
Matrix: Solid
Analysis Batch: 102918

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-102908/3-A
Matrix: Solid
Analysis Batch: 102918

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.5		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 880-54512-A-5-B MS
Matrix: Solid
Analysis Batch: 102918

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4920	F1	1250	6308	F1	mg/Kg		111	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-54512-A-5-C MSD
Matrix: Solid
Analysis Batch: 102918

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4920	F1	1250	6357	F1	mg/Kg		115	90 - 110	1	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

GC VOA

Prep Batch: 102865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	5035	
MB 880-102865/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102865/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102865/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7673-1 MS	SW-70	Total/NA	Solid	5035	
890-7673-1 MSD	SW-70	Total/NA	Solid	5035	

Analysis Batch: 102910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	8021B	102865
MB 880-102865/5-A	Method Blank	Total/NA	Solid	8021B	102865
LCS 880-102865/1-A	Lab Control Sample	Total/NA	Solid	8021B	102865
LCSD 880-102865/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102865
890-7673-1 MS	SW-70	Total/NA	Solid	8021B	102865
890-7673-1 MSD	SW-70	Total/NA	Solid	8021B	102865

Analysis Batch: 102913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	8021B	102919
MB 880-102919/5-A	Method Blank	Total/NA	Solid	8021B	102919
LCS 880-102919/1-A	Lab Control Sample	Total/NA	Solid	8021B	102919
LCSD 880-102919/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102919
890-7675-A-8-C MS	Matrix Spike	Total/NA	Solid	8021B	102919
890-7675-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102919

Prep Batch: 102919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	5035	
MB 880-102919/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102919/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102919/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7675-A-8-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7675-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 102975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	8015NM Prep	
MB 880-102892/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102892/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7673-1 MS	SW-70	Total/NA	Solid	8015NM Prep	
890-7673-1 MSD	SW-70	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 102928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	8015B NM	102892
MB 880-102892/1-A	Method Blank	Total/NA	Solid	8015B NM	102892
LCS 880-102892/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102892
LCSD 880-102892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102892
890-7673-1 MS	SW-70	Total/NA	Solid	8015B NM	102892
890-7673-1 MSD	SW-70	Total/NA	Solid	8015B NM	102892

Analysis Batch: 102985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Soluble	Solid	DI Leach	
MB 880-102908/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102908/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102908/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54512-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-54512-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7673-1	SW-70	Soluble	Solid	300.0	102908
MB 880-102908/1-A	Method Blank	Soluble	Solid	300.0	102908
LCS 880-102908/2-A	Lab Control Sample	Soluble	Solid	300.0	102908
LCSD 880-102908/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102908
880-54512-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	102908
880-54512-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102908

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Client Sample ID: SW-70

Date Collected: 02/14/25 12:00
Date Received: 02/14/25 15:12

Lab Sample ID: 890-7673-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		20	5 mL	5 mL	102913	02/17/25 14:52	MNR	EET MID
Total/NA	Prep	5035			4.97 g	5 mL	102919	02/17/25 17:00	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	102865	02/14/25 16:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102910	02/17/25 11:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102975	02/17/25 14:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102985	02/17/25 11:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 11:11	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102908	02/17/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102918	02/17/25 13:09	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

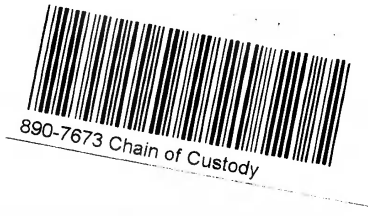
Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7673-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7673-1	SW-70	Solid	02/14/25 12:00	02/14/25 15:12

Page 1343 of 1592



2/17/2025

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Miguel Flores
Project Name: Iceman SWD	575-725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
~~**Receiving Laboratory:**~~ Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO -ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate TDS	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	SW-70	2/14/2025	12:00		X				X					X		X												X									

Relinquished by:	Date: 2.14.2025	Time:
Relinquished by:	Date:	Time:
Relinquished by:	Date:	Time:
Received by:	Date: 2/14	Time: 15.12
~~Received by:~~	Date:	Time:
Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

5.4

REMARKS:

- [X] ~~RUSH: Same Day 24 hr 48 hr 72 hr~~
- [ ] ~~Rush Charges Authorized~~
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS ~~Tracking #:~~

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7673-1
SDG Number: Eddy County NM

Login Number: 7673
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7673-1
SDG Number: Eddy County NM

Login Number: 7673
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/15/25 04:30 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/21/2025 2:35:15 PM

JOB DESCRIPTION

iceman SWD

JOB NUMBER

890-7688-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

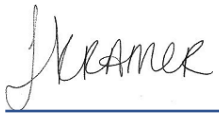
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/21/2025 2:35:15 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: iceman SWD

Laboratory Job ID: 890-7688-1

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 31
QC Sample Results 34
QC Association Summary 46
Lab Chronicle 54
Certification Summary 64
Method Summary 65
Sample Summary 66
Chain of Custody 67
Receipt Checklists 70

Definitions/Glossary

Client: Tetra Tech Inc
Job ID: 890-7688-1
Project/Site: iceman SWD

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: iceman SWD

Job ID: 890-7688-1

Job ID: 890-7688-1 Eurofins Carlsbad

Job Narrative
890-7688-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/18/2025 2:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-259 (4') (890-7688-1), BH-260 (4') (890-7688-2), BH-261 (4') (890-7688-3), BH-262 (4') (890-7688-4), BH-263 (4') (890-7688-5), BH-264 (4') (890-7688-6), BH-265 (4') (890-7688-7), BH-266 (4') (890-7688-8), BH-267 (4') (890-7688-9), BH-268 (4') (890-7688-10), BH-269 (4') (890-7688-11), BH-270 (4') (890-7688-12), BH-271 (4') (890-7688-13), BH-272 (4') (890-7688-14), BH-273 (4') (890-7688-15), BH-274 (4') (890-7688-16), BH-275 (4') (890-7688-17), BH-276 (4') (890-7688-18), BH-277 (4') (890-7688-19), BH-278 (4') (890-7688-20), BH-280 (4') (890-7688-21), BH-281 (4') (890-7688-22), BH-282 (4') (890-7688-23), SW-99 (890-7688-24), SW-100 (890-7688-25), SW-101 (890-7688-26), SW-102 (890-7688-27), SW-103 (890-7688-28), SW-104 (890-7688-29) and BH-279 (4) (890-7688-30).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-104 (890-7688-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103135 and analytical batch 880-103050 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-103135/2-A) and (LCSD 880-103135/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-261 (4') (890-7688-3) and BH-276 (4') (890-7688-18). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-103015 and analytical batch 880-103048 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103015 and analytical batch 880-103048 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-280 (4') (890-7688-21), BH-281 (4') (890-7688-22), BH-282 (4') (890-7688-23), SW-100 (890-7688-25) and BH-279 (4) (890-7688-30). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-99 (890-7688-24). Percent recoveries are based on the amount spiked.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech Inc
Project: iceman SWD

Job ID: 890-7688-1

Job ID: 890-7688-1 (Continued) Eurofins Carlsbad

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103163 and analytical batch 880-103164 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-259 (4')

Lab Sample ID: 890-7688-1
Matrix: Solid
Date Collected: 02/18/25 07:00
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/19/25 08:39	02/19/25 11:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/19/25 08:39	02/19/25 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/19/25 08:39*	*02/19/25 11:50*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/19/25 08:39*	*02/19/25 11:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/19/25 11:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/25 18:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 18:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 18:29	1
Total TPH	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*02/19/25 08:51*	*02/19/25 18:29*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/19/25 08:51*	*02/19/25 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		9.92		mg/Kg			02/19/25 14:43	1

Client Sample ID: BH-260 (4')

Lab Sample ID: 890-7688-2
Matrix: Solid
Date Collected: 02/18/25 07:05
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 13:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 13:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/19/25 08:39*	*02/19/25 13:08*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*02/19/25 08:39*	*02/19/25 13:08*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-260 (4')

Lab Sample ID: 890-7688-2
Matrix: Solid
Date Collected: 02/18/25 07:05
Date Received: 02/18/25 14:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 13:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/19/25 19:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:16	1
Total TPH	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*02/19/25 08:51*	*02/19/25 19:16*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/19/25 08:51*	*02/19/25 19:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3610**		50.1		mg/Kg			02/19/25 15:06	5

Client Sample ID: BH-261 (4')

Lab Sample ID: 890-7688-3
Matrix: Solid
Date Collected: 02/18/25 07:10
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/19/25 08:39*	*02/19/25 13:28*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/19/25 08:39*	*02/19/25 13:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 13:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 19:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 19:32	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-261 (4')

Lab Sample ID: 890-7688-3
Matrix: Solid
Date Collected: 02/18/25 07:10
Date Received: 02/18/25 14:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 19:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 19:32	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*02/19/25 08:51*	*02/19/25 19:32*	*1*
o-Terphenyl	*109*		*70 - 130*	*02/19/25 08:51*	*02/19/25 19:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4610**		49.8		mg/Kg			02/19/25 15:13	5

Client Sample ID: BH-262 (4')

Lab Sample ID: 890-7688-4
Matrix: Solid
Date Collected: 02/18/25 07:15
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 13:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 13:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 13:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:39	02/19/25 13:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:39	02/19/25 13:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/19/25 08:39*	*02/19/25 13:48*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/19/25 08:39*	*02/19/25 13:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/19/25 19:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:48	1
Total TPH	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*02/19/25 08:51*	*02/19/25 19:48*	*1*
o-Terphenyl	*104*		*70 - 130*	*02/19/25 08:51*	*02/19/25 19:48*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-262 (4')

Lab Sample ID: 890-7688-4
Matrix: Solid
Date Collected: 02/18/25 07:15
Date Received: 02/18/25 14:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		49.6		mg/Kg			02/19/25 15:20	5

Client Sample ID: BH-263 (4')

Lab Sample ID: 890-7688-5
Matrix: Solid
Date Collected: 02/18/25 07:20
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 14:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/19/25 08:39*	*02/19/25 14:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/19/25 08:39*	*02/19/25 14:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 14:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/25 20:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:04	1
Total TPH	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:04*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		50.4		mg/Kg			02/19/25 15:28	5

Client Sample ID: BH-264 (4')

Lab Sample ID: 890-7688-6
Matrix: Solid
Date Collected: 02/18/25 07:25
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:29	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-264 (4')

Lab Sample ID: 890-7688-6
Matrix: Solid
Date Collected: 02/18/25 07:25
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 14:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 14:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/19/25 08:39*	*02/19/25 14:29*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/19/25 08:39*	*02/19/25 14:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 14:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/19/25 20:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:21	1
Total TPH	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:21*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3270**		49.7		mg/Kg			02/19/25 15:50	5

Client Sample ID: BH-265 (4')

Lab Sample ID: 890-7688-7
Matrix: Solid
Date Collected: 02/18/25 07:30
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 14:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:39	02/19/25 14:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:39	02/19/25 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*02/19/25 08:39*	*02/19/25 14:50*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/19/25 08:39*	*02/19/25 14:50*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-265 (4')

Lab Sample ID: 890-7688-7
Matrix: Solid
Date Collected: 02/18/25 07:30
Date Received: 02/18/25 14:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 14:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/19/25 20:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:38	1
Total TPH	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/19/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:38*	*1*
o-Terphenyl	*103*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3160**		49.6		mg/Kg			02/19/25 15:58	5

Client Sample ID: BH-266 (4')

Lab Sample ID: 890-7688-8
Matrix: Solid
Date Collected: 02/18/25 07:35
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:39	02/19/25 15:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:39	02/19/25 15:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:39	02/19/25 15:10	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/19/25 08:39	02/19/25 15:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/19/25 08:39	02/19/25 15:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:39	02/19/25 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*02/19/25 08:39*	*02/19/25 15:10*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/19/25 08:39*	*02/19/25 15:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/19/25 15:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/25 20:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:56	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-266 (4')

Lab Sample ID: 890-7688-8
Matrix: Solid
Date Collected: 02/18/25 07:35
Date Received: 02/18/25 14:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:56	1
Total TPH	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:56*	*1*
o-Terphenyl	*91*		*70 - 130*	*02/19/25 08:51*	*02/19/25 20:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3950		50.2		mg/Kg			02/19/25 16:05	5

Client Sample ID: BH-267 (4')

Lab Sample ID: 890-7688-9
Matrix: Solid
Date Collected: 02/18/25 07:40
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:39	02/19/25 15:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:39	02/19/25 15:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/19/25 08:39*	*02/19/25 15:31*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/19/25 08:39*	*02/19/25 15:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 15:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 21:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:14	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*02/19/25 08:51*	*02/19/25 21:14*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/19/25 08:51*	*02/19/25 21:14*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-267 (4')

Lab Sample ID: 890-7688-9
Matrix: Solid
Date Collected: 02/18/25 07:40
Date Received: 02/18/25 14:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5310		49.8		mg/Kg			02/19/25 16:12	5

Client Sample ID: BH-268 (4')

Lab Sample ID: 890-7688-10
Matrix: Solid
Date Collected: 02/18/25 07:45
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/19/25 08:39	02/19/25 15:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/19/25 08:39	02/19/25 15:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/19/25 08:39*	*02/19/25 15:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/19/25 08:39*	*02/19/25 15:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/19/25 15:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 21:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:32	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/19/25 08:51*	*02/19/25 21:32*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/19/25 08:51*	*02/19/25 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800		49.7		mg/Kg			02/19/25 16:20	5

Client Sample ID: BH-269 (4')

Lab Sample ID: 890-7688-11
Matrix: Solid
Date Collected: 02/18/25 07:05
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 12:01	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-269 (4')

Lab Sample ID: 890-7688-11
Matrix: Solid
Date Collected: 02/18/25 07:05
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 12:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/19/25 08:48	02/19/25 12:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/19/25 08:48	02/19/25 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/19/25 08:48*	*02/19/25 12:01*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/19/25 08:48*	*02/19/25 12:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/19/25 12:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/19/25 22:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 22:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 22:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 22:06	1
Total TPH	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:06*	*1*
o-Terphenyl	*93*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4180**	**F1**	49.9		mg/Kg			02/19/25 16:27	5

Client Sample ID: BH-270 (4')

Lab Sample ID: 890-7688-12
Matrix: Solid
Date Collected: 02/18/25 07:55
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 12:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 12:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/19/25 08:48*	*02/19/25 12:22*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/19/25 08:48*	*02/19/25 12:22*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-270 (4')

Lab Sample ID: 890-7688-12
Matrix: Solid
Date Collected: 02/18/25 07:55
Date Received: 02/18/25 14:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 12:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 22:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:21	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:21*	*1*
o-Terphenyl	*91*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4370**		49.6		mg/Kg			02/19/25 20:09	5

Client Sample ID: BH-271 (4')

Lab Sample ID: 890-7688-13
Matrix: Solid
Date Collected: 02/18/25 08:00
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 12:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 12:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/19/25 08:48*	*02/19/25 12:42*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/19/25 08:48*	*02/19/25 12:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 12:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 22:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:37	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-271 (4')

Lab Sample ID: 890-7688-13
Matrix: Solid
Date Collected: 02/18/25 08:00
Date Received: 02/18/25 14:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:37	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:37*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3260**		50.2		mg/Kg			02/19/25 20:16	5

Client Sample ID: BH-272 (4')

Lab Sample ID: 890-7688-14
Matrix: Solid
Date Collected: 02/18/25 08:05
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 13:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:48	02/19/25 13:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:48	02/19/25 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/19/25 08:48*	*02/19/25 13:03*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/19/25 08:48*	*02/19/25 13:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 13:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/25 22:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 22:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 22:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 22:53	1
Total TPH	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:53*	*1*
o-Terphenyl	*103*		*70 - 130*	*02/19/25 08:51*	*02/19/25 22:53*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-272 (4')

Lab Sample ID: 890-7688-14
Matrix: Solid
Date Collected: 02/18/25 08:05
Date Received: 02/18/25 14:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		9.94		mg/Kg			02/19/25 20:38	1

Client Sample ID: BH-273 (4')

Lab Sample ID: 890-7688-15
Matrix: Solid
Date Collected: 02/18/25 08:10
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 13:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 13:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/19/25 08:48*	*02/19/25 13:23*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/19/25 08:48*	*02/19/25 13:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 13:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 23:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:08	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*02/19/25 08:51*	*02/19/25 23:08*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/19/25 08:51*	*02/19/25 23:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	469		9.92		mg/Kg			02/19/25 20:46	1

Client Sample ID: BH-274 (4')

Lab Sample ID: 890-7688-16
Matrix: Solid
Date Collected: 02/18/25 08:15
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:44	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-274 (4')

Lab Sample ID: 890-7688-16
Matrix: Solid
Date Collected: 02/18/25 08:15
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 13:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:48	02/19/25 13:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:48	02/19/25 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/19/25 08:48*	*02/19/25 13:44*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/19/25 08:48*	*02/19/25 13:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 13:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/19/25 23:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 23:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 23:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 23:24	1
Total TPH	<49.9	U	49.9		mg/Kg		02/19/25 08:51	02/19/25 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*02/19/25 08:51*	*02/19/25 23:24*	*1*
o-Terphenyl	*101*		*70 - 130*	*02/19/25 08:51*	*02/19/25 23:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**489**		10.1		mg/Kg			02/19/25 20:53	1

Client Sample ID: BH-275 (4')

Lab Sample ID: 890-7688-17
Matrix: Solid
Date Collected: 02/18/25 08:20
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:48	02/19/25 14:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:48	02/19/25 14:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/19/25 08:48*	*02/19/25 14:04*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/19/25 08:48*	*02/19/25 14:04*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-275 (4')

Lab Sample ID: 890-7688-17
Matrix: Solid
Date Collected: 02/18/25 08:20
Date Received: 02/18/25 14:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 14:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/25 23:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 23:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 23:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 23:40	1
Total TPH	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*02/19/25 08:51*	*02/19/25 23:40*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/19/25 08:51*	*02/19/25 23:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2770**		49.7		mg/Kg			02/19/25 21:01	5

Client Sample ID: BH-276 (4')

Lab Sample ID: 890-7688-18
Matrix: Solid
Date Collected: 02/18/25 08:25
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:48	02/19/25 14:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:48	02/19/25 14:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:48	02/19/25 14:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/19/25 08:48	02/19/25 14:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/19/25 08:48	02/19/25 14:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:48	02/19/25 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/19/25 08:48*	*02/19/25 14:25*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/19/25 08:48*	*02/19/25 14:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/19/25 14:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 23:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:55	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-276 (4')

Lab Sample ID: 890-7688-18
Matrix: Solid
Date Collected: 02/18/25 08:25
Date Received: 02/18/25 14:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:55	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/19/25 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*02/19/25 08:51*	*02/19/25 23:55*	*1*
o-Terphenyl	*110*		*70 - 130*	*02/19/25 08:51*	*02/19/25 23:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3950**		50.1		mg/Kg			02/19/25 21:08	5

Client Sample ID: BH-277 (4')

Lab Sample ID: 890-7688-19
Matrix: Solid
Date Collected: 02/18/25 08:30
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:48	02/19/25 14:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:48	02/19/25 14:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/19/25 08:48*	*02/19/25 14:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/19/25 08:48*	*02/19/25 14:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 14:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 00:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/20/25 00:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/20/25 00:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/20/25 00:10	1
Total TPH	<49.8	U	49.8		mg/Kg		02/19/25 08:51	02/20/25 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/19/25 08:51*	*02/20/25 00:10*	*1*
o-Terphenyl	*103*		*70 - 130*	*02/19/25 08:51*	*02/20/25 00:10*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-277 (4')

Lab Sample ID: 890-7688-19
Matrix: Solid
Date Collected: 02/18/25 08:30
Date Received: 02/18/25 14:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2360		49.9		mg/Kg			02/19/25 21:16	5

Client Sample ID: BH-278 (4')

Lab Sample ID: 890-7688-20
Matrix: Solid
Date Collected: 02/18/25 08:35
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 12:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/19/25 08:44	02/19/25 12:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/19/25 08:44	02/19/25 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/19/25 08:44*	*02/19/25 12:00*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/19/25 08:44*	*02/19/25 12:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/19/25 12:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/20/25 00:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/20/25 00:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/20/25 00:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/20/25 00:25	1
Total TPH	<49.7	U	49.7		mg/Kg		02/19/25 08:51	02/20/25 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*02/19/25 08:51*	*02/20/25 00:25*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/19/25 08:51*	*02/20/25 00:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	697		10.0		mg/Kg			02/19/25 21:23	1

Client Sample ID: BH-280 (4')

Lab Sample ID: 890-7688-21
Matrix: Solid
Date Collected: 02/18/25 08:40
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:21	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-280 (4')

Lab Sample ID: 890-7688-21
Matrix: Solid
Date Collected: 02/18/25 08:40
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 12:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 12:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/19/25 08:44*	*02/19/25 12:21*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/19/25 08:44*	*02/19/25 12:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 12:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 20:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:21	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*02/18/25 08:36*	*02/19/25 20:21*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*02/18/25 08:36*	*02/19/25 20:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2540**		49.5		mg/Kg			02/19/25 21:56	5

Client Sample ID: BH-281 (4')

Lab Sample ID: 890-7688-22
Matrix: Solid
Date Collected: 02/18/25 08:45
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 12:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 12:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/19/25 08:44*	*02/19/25 12:41*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/19/25 08:44*	*02/19/25 12:41*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-281 (4')

Lab Sample ID: 890-7688-22
Matrix: Solid
Date Collected: 02/18/25 08:45
Date Received: 02/18/25 14:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 12:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/19/25 20:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		02/18/25 08:36	02/19/25 20:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		02/18/25 08:36	02/19/25 20:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/18/25 08:36	02/19/25 20:38	1
Total TPH	<49.7	U	49.7		mg/Kg		02/18/25 08:36	02/19/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/18/25 08:36*	*02/19/25 20:38*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/18/25 08:36*	*02/19/25 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2750**		49.9		mg/Kg			02/19/25 22:02	5

Client Sample ID: BH-282 (4')

Lab Sample ID: 890-7688-23
Matrix: Solid
Date Collected: 02/18/25 08:50
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 13:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 13:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 13:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:44	02/19/25 13:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:44	02/19/25 13:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/19/25 08:44*	*02/19/25 13:02*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*02/19/25 08:44*	*02/19/25 13:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 13:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 20:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:56	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-282 (4')

Lab Sample ID: 890-7688-23
Matrix: Solid
Date Collected: 02/18/25 08:50
Date Received: 02/18/25 14:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:56	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*02/18/25 08:36*	*02/19/25 20:56*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*02/18/25 08:36*	*02/19/25 20:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3210**		50.0		mg/Kg			02/19/25 22:09	5

Client Sample ID: SW-99

Lab Sample ID: 890-7688-24
Matrix: Solid
Date Collected: 02/18/25 08:55
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 13:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 13:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/19/25 08:44*	*02/19/25 13:22*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/19/25 08:44*	*02/19/25 13:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 13:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/21/25 03:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/20/25 11:12	02/21/25 03:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/20/25 11:12	02/21/25 03:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/20/25 11:12	02/21/25 03:20	1
Total TPH	<49.9	U	49.9		mg/Kg		02/20/25 11:12	02/21/25 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*02/20/25 11:12*	*02/21/25 03:20*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*02/20/25 11:12*	*02/21/25 03:20*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: SW-99
Lab Sample ID: 890-7688-24
Date Collected: 02/18/25 08:55
Matrix: Solid
Date Received: 02/18/25 14:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	329		10.0		mg/Kg			02/19/25 22:15	1

Client Sample ID: SW-100
Lab Sample ID: 890-7688-25
Date Collected: 02/18/25 09:00
Matrix: Solid
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 13:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:44	02/19/25 13:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:44	02/19/25 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/19/25 08:44*	*02/19/25 13:42*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/19/25 08:44*	*02/19/25 13:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 13:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/25 21:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/18/25 08:36	02/19/25 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/25 08:36	02/19/25 21:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 21:32	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*02/18/25 08:36*	*02/19/25 21:32*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/18/25 08:36*	*02/19/25 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331		10.0		mg/Kg			02/19/25 22:33	1

Client Sample ID: SW-101
Lab Sample ID: 890-7688-26
Date Collected: 02/18/25 09:05
Matrix: Solid
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:03	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: SW-101

Lab Sample ID: 890-7688-26

Date Collected: 02/18/25 09:05
Matrix: Solid
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:44	02/19/25 14:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:44	02/19/25 14:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/19/25 08:44*	*02/19/25 14:03*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/19/25 08:44*	*02/19/25 14:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 14:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 22:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:06	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:06*	*1*
o-Terphenyl	*70*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.1**		9.94		mg/Kg			02/19/25 22:39	1

Client Sample ID: SW-102

Lab Sample ID: 890-7688-27

Date Collected: 02/18/25 09:10
Matrix: Solid
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:44	02/19/25 14:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:44	02/19/25 14:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:44	02/19/25 14:23	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/19/25 08:44	02/19/25 14:23	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/19/25 08:44	02/19/25 14:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/19/25 08:44	02/19/25 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/19/25 08:44*	*02/19/25 14:23*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*02/19/25 08:44*	*02/19/25 14:23*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: SW-102

Lab Sample ID: 890-7688-27

Date Collected: 02/18/25 09:10
Matrix: Solid
Date Received: 02/18/25 14:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/19/25 14:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/25 22:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/18/25 08:36	02/19/25 22:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/25 08:36	02/19/25 22:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 22:21	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:21*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.1**		9.92		mg/Kg			02/19/25 22:57	1

Client Sample ID: SW-103

Lab Sample ID: 890-7688-28

Date Collected: 02/18/25 09:15
Matrix: Solid
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/19/25 08:44	02/19/25 14:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/19/25 08:44	02/19/25 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/19/25 08:44*	*02/19/25 14:44*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/19/25 08:44*	*02/19/25 14:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/19/25 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/19/25 22:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		02/18/25 08:36	02/19/25 22:37	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: SW-103

Lab Sample ID: 890-7688-28
Matrix: Solid
Date Collected: 02/18/25 09:15
Date Received: 02/18/25 14:49

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		02/18/25 08:36	02/19/25 22:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/18/25 08:36	02/19/25 22:37	1
Total TPH	<49.7	U	49.7		mg/Kg		02/18/25 08:36	02/19/25 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:37*	*1*
o-Terphenyl	*72*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.6**		9.94		mg/Kg			02/20/25 14:36	1

Client Sample ID: SW-104

Lab Sample ID: 890-7688-29
Matrix: Solid
Date Collected: 02/18/25 09:20
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 17:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 17:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*02/19/25 08:39*	*02/19/25 17:14*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/19/25 08:39*	*02/19/25 17:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 17:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/25 22:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:53	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 08:36	02/19/25 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:53*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/18/25 08:36*	*02/19/25 22:53*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: SW-104

Lab Sample ID: 890-7688-29
Matrix: Solid
Date Collected: 02/18/25 09:20
Date Received: 02/18/25 14:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		9.92		mg/Kg			02/20/25 14:42	1

Client Sample ID: BH-279 (4)

Lab Sample ID: 890-7688-30
Matrix: Solid
Date Collected: 02/18/25 09:25
Date Received: 02/18/25 14:49

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 17:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/19/25 08:39	02/19/25 17:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/19/25 08:39	02/19/25 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/19/25 08:39*	*02/19/25 17:35*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/19/25 08:39*	*02/19/25 17:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/25 17:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/19/25 23:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		02/18/25 08:36	02/19/25 23:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/18/25 08:36	02/19/25 23:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 08:36	02/19/25 23:08	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 08:36	02/19/25 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*02/18/25 08:36*	*02/19/25 23:08*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*02/18/25 08:36*	*02/19/25 23:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.7		10.0		mg/Kg			02/20/25 14:47	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7688-1	BH-259 (4')	120	99
890-7688-1 MS	BH-259 (4')	101	102
890-7688-1 MSD	BH-259 (4')	105	101
890-7688-2	BH-260 (4')	115	85
890-7688-3	BH-261 (4')	120	95
890-7688-4	BH-262 (4')	118	98
890-7688-5	BH-263 (4')	120	97
890-7688-6	BH-264 (4')	118	97
890-7688-7	BH-265 (4')	124	97
890-7688-8	BH-266 (4')	116	98
890-7688-9	BH-267 (4')	119	98
890-7688-10	BH-268 (4')	120	100
890-7688-11	BH-269 (4')	103	102
890-7688-11 MS	BH-269 (4')	100	108
890-7688-12	BH-270 (4')	100	99
890-7688-13	BH-271 (4')	101	100
890-7688-14	BH-272 (4')	101	99
890-7688-15	BH-273 (4')	107	97
890-7688-16	BH-274 (4')	103	103
890-7688-17	BH-275 (4')	103	102
890-7688-18	BH-276 (4')	100	98
890-7688-19	BH-277 (4')	103	101
890-7688-20	BH-278 (4')	114	88
890-7688-20 MS	BH-278 (4')	123	102
890-7688-20 MSD	BH-278 (4')	111	93
890-7688-21	BH-280 (4')	121	89
890-7688-22	BH-281 (4')	118	92
890-7688-23	BH-282 (4')	122	85
890-7688-24	SW-99	118	90
890-7688-25	SW-100	115	90
890-7688-26	SW-101	115	92
890-7688-27	SW-102	120	85
890-7688-28	SW-103	121	90
890-7688-29	SW-104	131 S1+	98
890-7688-30	BH-279 (4)	118	101
LCS 880-103132/1-A	Lab Control Sample	100	101
LCS 880-103133/1-A	Lab Control Sample	116	97
LCS 880-103134/1-A	Lab Control Sample	102	103
LCSD 880-103132/2-A	Lab Control Sample Dup	99	101
LCSD 880-103133/2-A	Lab Control Sample Dup	114	94
LCSD 880-103134/2-A	Lab Control Sample Dup	97	107
MB 880-103132/5-A	Method Blank	115	89
MB 880-103133/5-A	Method Blank	107	81
MB 880-103134/5-A	Method Blank	100	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7688-1
Project/Site: iceman SWD

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB1	DFBZ1						
Lab Sample ID	Client Sample ID								
890-7688-11 MSD	BH-269 (4')								

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
880-54554-A-41-C MS	Matrix Spike	99	85						
880-54554-A-41-D MSD	Matrix Spike Duplicate	96	83						
880-54699-A-28-C MS	Matrix Spike	93	77						
880-54699-A-28-D MSD	Matrix Spike Duplicate	90	77						
890-7688-1	BH-259 (4')	123	100						
890-7688-1 MS	BH-259 (4')	112	101						
890-7688-1 MSD	BH-259 (4')	109	97						
890-7688-2	BH-260 (4')	122	98						
890-7688-3	BH-261 (4')	134 S1+	109						
890-7688-4	BH-262 (4')	128	104						
890-7688-5	BH-263 (4')	121	97						
890-7688-6	BH-264 (4')	121	97						
890-7688-7	BH-265 (4')	128	103						
890-7688-8	BH-266 (4')	113	91						
890-7688-9	BH-267 (4')	109	89						
890-7688-10	BH-268 (4')	118	95						
890-7688-11	BH-269 (4')	118	93						
890-7688-12	BH-270 (4')	115	91						
890-7688-13	BH-271 (4')	119	95						
890-7688-14	BH-272 (4')	128	103						
890-7688-15	BH-273 (4')	119	96						
890-7688-16	BH-274 (4')	126	101						
890-7688-17	BH-275 (4')	121	97						
890-7688-18	BH-276 (4')	138 S1+	110						
890-7688-19	BH-277 (4')	130	103						
890-7688-20	BH-278 (4')	123	97						
890-7688-21	BH-280 (4')	72	67 S1-						
890-7688-22	BH-281 (4')	73	68 S1-						
890-7688-23	BH-282 (4')	74	69 S1-						
890-7688-24	SW-99	144 S1+	132 S1+						
890-7688-25	SW-100	70	65 S1-						
890-7688-26	SW-101	78	70						
890-7688-27	SW-102	79	73						
890-7688-28	SW-103	78	72						
890-7688-29	SW-104	80	73						
890-7688-30	BH-279 (4)	73	67 S1-						
LCS 880-103015/2-A	Lab Control Sample	84	86						
LCS 880-103135/2-A	Lab Control Sample	159 S1+	136 S1+						
LCS 880-103287/2-A	Lab Control Sample	110	94						

Surrogate Summary

Client: Tetra Tech Inc
Job ID: 890-7688-1
Project/Site: iceman SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCSD 880-103015/3-A	Lab Control Sample Dup	125	133 S1+								
LCSD 880-103135/3-A	Lab Control Sample Dup	170 S1+	145 S1+								
LCSD 880-103287/3-A	Lab Control Sample Dup	109	95								
MB 880-103015/1-A	Method Blank	133 S1+	124								
MB 880-103135/1-A	Method Blank	219 S1+	178 S1+								
MB 880-103287/1-A	Method Blank	116	103								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103132/5-A
Matrix: Solid
Analysis Batch: 103126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/19/25 08:39	02/19/25 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/19/25 08:39	02/19/25 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:39	02/19/25 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/19/25 08:39*	*02/19/25 11:29*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/19/25 08:39*	*02/19/25 11:29*	*1*

Lab Sample ID: LCS 880-103132/1-A
Matrix: Solid
Analysis Batch: 103126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1003		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09631		mg/Kg		96	70 - 130
Toluene	0.100	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.1996		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-103132/2-A
Matrix: Solid
Analysis Batch: 103126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103132

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09951		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.09404		mg/Kg		94	70 - 130	2	35
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1940		mg/Kg		97	70 - 130	3	35
o-Xylene	0.100	0.09806		mg/Kg		98	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-7688-1 MS
Matrix: Solid
Analysis Batch: 103126

Client Sample ID: BH-259 (4')
Prep Type: Total/NA
Prep Batch: 103132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09515		mg/Kg		95	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08685		mg/Kg		87	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7688-1 MS — **Client Sample ID: BH-259 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103126 — **Prep Batch: 103132**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.0998	0.09594		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1787		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09013		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7688-1 MSD — **Client Sample ID: BH-259 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103126 — **Prep Batch: 103132**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09519		mg/Kg		96	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.08650		mg/Kg		87	70 - 130	0	35
Toluene	<0.00200	U	0.0996	0.09566		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1779		mg/Kg		89	70 - 130	0	35
o-Xylene	<0.00200	U	0.0996	0.08894		mg/Kg		89	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-103133/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103127 — **Prep Batch: 103133**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/19/25 08:44*	*02/19/25 11:39*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*02/19/25 08:44*	*02/19/25 11:39*	*1*

Lab Sample ID: LCS 880-103133/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103127 — **Prep Batch: 103133**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1127		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.1012		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2362		mg/Kg		118	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-103133/1-A
Matrix: Solid
Analysis Batch: 103127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103133

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1142		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-103133/2-A
Matrix: Solid
Analysis Batch: 103127

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103133

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1086		mg/Kg		109	70 - 130	4	35
Ethylbenzene			0.100	0.1024		mg/Kg		102	70 - 130	1	35
Toluene			0.100	0.09625		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2224		mg/Kg		111	70 - 130	6	35
o-Xylene			0.100	0.1075		mg/Kg		107	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-7688-20 MS
Matrix: Solid
Analysis Batch: 103127

Client Sample ID: BH-278 (4')
Prep Type: Total/NA
Prep Batch: 103133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.1147		mg/Kg		115	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.1078		mg/Kg		108	70 - 130		
Toluene	<0.00200	U	0.0998	0.1035		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2348		mg/Kg		118	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.1135		mg/Kg		114	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-7688-20 MSD
Matrix: Solid
Analysis Batch: 103127

Client Sample ID: BH-278 (4')
Prep Type: Total/NA
Prep Batch: 103133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1047		mg/Kg		105	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0996	0.09693		mg/Kg		97	70 - 130	11	35
Toluene	<0.00200	U	0.0996	0.09144		mg/Kg		92	70 - 130	12	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2074		mg/Kg		104	70 - 130	12	35
o-Xylene	<0.00200	U	0.0996	0.1002		mg/Kg		101	70 - 130	12	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7688-20 MSD
Matrix: Solid
Analysis Batch: 103127

Client Sample ID: BH-278 (4')
Prep Type: Total/NA
Prep Batch: 103133

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-103134/5-A
Matrix: Solid
Analysis Batch: 103129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/19/25 08:48	02/19/25 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/19/25 08:48	02/19/25 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:48	02/19/25 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/19/25 08:48	02/19/25 11:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/19/25 08:48	02/19/25 11:40	1

Lab Sample ID: LCS 880-103134/1-A
Matrix: Solid
Analysis Batch: 103129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09795		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09532		mg/Kg		95	70 - 130
Toluene	0.100	0.08726		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1994		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09986		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-103134/2-A
Matrix: Solid
Analysis Batch: 103129

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103134

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1048		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	7	35
Toluene	0.100	0.09356		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2124		mg/Kg		106	70 - 130	6	35
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-103134/2-A
Matrix: Solid
Analysis Batch: 103129

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103134

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-7688-11 MS
Matrix: Solid
Analysis Batch: 103129

Client Sample ID: BH-269 (4')
Prep Type: Total/NA
Prep Batch: 103134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09958		mg/Kg		100	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.09389		mg/Kg		94	70 - 130
Toluene	<0.00200	U	0.0998	0.08754		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1960		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09757		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-7688-11 MSD
Matrix: Solid
Analysis Batch: 103129

Client Sample ID: BH-269 (4')
Prep Type: Total/NA
Prep Batch: 103134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09953		mg/Kg					
Ethylbenzene	<0.00200	U	0.0996	0.09519		mg/Kg					
Toluene	<0.00200	U	0.0996	0.08765		mg/Kg					
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1969		mg/Kg					
o-Xylene	<0.00200	U	0.0996	0.09838		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-103015/1-A
Matrix: Solid
Analysis Batch: 103048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 17:42	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 08:36	02/19/25 17:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	02/18/25 08:36	02/19/25 17:42	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-103015/1-A
Matrix: Solid
Analysis Batch: 103048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103015

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	124		70 - 130	02/18/25 08:36	02/19/25 17:42	1

Lab Sample ID: LCS 880-103015/2-A
Matrix: Solid
Analysis Batch: 103048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103015

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	828.0		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	817.6		mg/Kg		82	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-103015/3-A
Matrix: Solid
Analysis Batch: 103048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103015

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1161	*1	mg/Kg		116	70 - 130	33	20
Diesel Range Organics (Over C10-C28)			1000	1219	*1	mg/Kg		122	70 - 130	39	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 880-54554-A-41-C MS
Matrix: Solid
Analysis Batch: 103048

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	676.3	F1	mg/Kg		68	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1	999	679.6	F1	mg/Kg		68	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-54554-A-41-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103048 — **Prep Batch: 103015**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F1	999	665.9	F1	mg/Kg		67	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1	999	664.9	F1	mg/Kg		67	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: MB 880-103135/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103050 — **Prep Batch: 103135**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 17:42	1
Total TPH	<50.0	U	50.0		mg/Kg		02/19/25 08:51	02/19/25 17:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*219*	*S1+*	*70 - 130*	*02/19/25 08:51*	*02/19/25 17:42*	*1*
o-Terphenyl	*178*	*S1+*	*70 - 130*	*02/19/25 08:51*	*02/19/25 17:42*	*1*

Lab Sample ID: LCS 880-103135/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103050 — **Prep Batch: 103135**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1169		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1119		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*159*	*S1+*	*70 - 130*
o-Terphenyl	*136*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-103135/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103050 — **Prep Batch: 103135**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1219		mg/Kg		122	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1198		mg/Kg		120	70 - 130	7	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-103135/3-A
Matrix: Solid
Analysis Batch: 103050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103135

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	170	S1+	70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: 890-7688-1 MS
Matrix: Solid
Analysis Batch: 103050

Client Sample ID: BH-259 (4')
Prep Type: Total/NA
Prep Batch: 103135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1063		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	994	1090		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-7688-1 MSD
Matrix: Solid
Analysis Batch: 103050

Client Sample ID: BH-259 (4')
Prep Type: Total/NA
Prep Batch: 103135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1046		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	994	1013		mg/Kg		102	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: MB 880-103287/1-A
Matrix: Solid
Analysis Batch: 103290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/20/25 11:12	02/20/25 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/25 11:12	02/20/25 18:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/25 11:12	02/20/25 18:36	1
Total TPH	<50.0	U	50.0		mg/Kg		02/20/25 11:12	02/20/25 18:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	02/20/25 11:12	02/20/25 18:36	1
o-Terphenyl	103		70 - 130	02/20/25 11:12	02/20/25 18:36	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-103287/2-A
Matrix: Solid
Analysis Batch: 103290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1190		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1236		mg/Kg		124	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-103287/3-A
Matrix: Solid
Analysis Batch: 103290

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103287

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1194		mg/Kg		119	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1243		mg/Kg		124	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 880-54699-A-28-C MS
Matrix: Solid
Analysis Batch: 103290

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103287

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	713.5		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	697.9		mg/Kg		70	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: 880-54699-A-28-D MSD
Matrix: Solid
Analysis Batch: 103290

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 103287

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	723.5		mg/Kg		73	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	727.9		mg/Kg		73	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-54699-A-28-D MSD
Matrix: Solid
Analysis Batch: 103290

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 103287

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	77		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103163/1-A
Matrix: Solid
Analysis Batch: 103164

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/19/25 14:21	1

Lab Sample ID: LCS 880-103163/2-A
Matrix: Solid
Analysis Batch: 103164

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.5		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-103163/3-A
Matrix: Solid
Analysis Batch: 103164

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.7		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 890-7688-1 MS
Matrix: Solid
Analysis Batch: 103164

Client Sample ID: BH-259 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1240		248	1453	4	mg/Kg		87	90 - 110		

Lab Sample ID: 890-7688-1 MSD
Matrix: Solid
Analysis Batch: 103164

Client Sample ID: BH-259 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1240		248	1442	4	mg/Kg		83	90 - 110	1	20

Lab Sample ID: 890-7688-11 MS
Matrix: Solid
Analysis Batch: 103164

Client Sample ID: BH-269 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4180	F1	1250	5258	F1	mg/Kg		86	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7688-11 MSD — **Client Sample ID: BH-269 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4180	F1	1250	4759	F1	mg/Kg		46	90 - 110	10	20

Lab Sample ID: MB 880-103207/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/19/25 20:31	1

Lab Sample ID: LCS 880-103207/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-103207/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103216

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-7688-24 MS — **Client Sample ID: SW-99**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	329		251	584.4		mg/Kg		102	90 - 110

Lab Sample ID: 890-7688-24 MSD — **Client Sample ID: SW-99**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103216

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	329		251	585.5		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-103243/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/20/25 12:20	1

Lab Sample ID: LCS 880-103243/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.6		mg/Kg		101	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-103243/3-A
Matrix: Solid
Analysis Batch: 103268

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.5		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-54699-A-41-B MS
Matrix: Solid
Analysis Batch: 103268

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	29.9		252	296.8		mg/Kg		106	90 - 110

Lab Sample ID: 880-54699-A-41-C MSD
Matrix: Solid
Analysis Batch: 103268

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29.9		252	297.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

GC VOA

Analysis Batch: 103126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Total/NA	Solid	8021B	103132
890-7688-2	BH-260 (4')	Total/NA	Solid	8021B	103132
890-7688-3	BH-261 (4')	Total/NA	Solid	8021B	103132
890-7688-4	BH-262 (4')	Total/NA	Solid	8021B	103132
890-7688-5	BH-263 (4')	Total/NA	Solid	8021B	103132
890-7688-6	BH-264 (4')	Total/NA	Solid	8021B	103132
890-7688-7	BH-265 (4')	Total/NA	Solid	8021B	103132
890-7688-8	BH-266 (4')	Total/NA	Solid	8021B	103132
890-7688-9	BH-267 (4')	Total/NA	Solid	8021B	103132
890-7688-10	BH-268 (4')	Total/NA	Solid	8021B	103132
890-7688-29	SW-104	Total/NA	Solid	8021B	103132
890-7688-30	BH-279 (4)	Total/NA	Solid	8021B	103132
MB 880-103132/5-A	Method Blank	Total/NA	Solid	8021B	103132
LCS 880-103132/1-A	Lab Control Sample	Total/NA	Solid	8021B	103132
LCSD 880-103132/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103132
890-7688-1 MS	BH-259 (4')	Total/NA	Solid	8021B	103132
890-7688-1 MSD	BH-259 (4')	Total/NA	Solid	8021B	103132

Analysis Batch: 103127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-20	BH-278 (4')	Total/NA	Solid	8021B	103133
890-7688-21	BH-280 (4')	Total/NA	Solid	8021B	103133
890-7688-22	BH-281 (4')	Total/NA	Solid	8021B	103133
890-7688-23	BH-282 (4')	Total/NA	Solid	8021B	103133
890-7688-24	SW-99	Total/NA	Solid	8021B	103133
890-7688-25	SW-100	Total/NA	Solid	8021B	103133
890-7688-26	SW-101	Total/NA	Solid	8021B	103133
890-7688-27	SW-102	Total/NA	Solid	8021B	103133
890-7688-28	SW-103	Total/NA	Solid	8021B	103133
MB 880-103133/5-A	Method Blank	Total/NA	Solid	8021B	103133
LCS 880-103133/1-A	Lab Control Sample	Total/NA	Solid	8021B	103133
LCSD 880-103133/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103133
890-7688-20 MS	BH-278 (4')	Total/NA	Solid	8021B	103133
890-7688-20 MSD	BH-278 (4')	Total/NA	Solid	8021B	103133

Analysis Batch: 103129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-11	BH-269 (4')	Total/NA	Solid	8021B	103134
890-7688-12	BH-270 (4')	Total/NA	Solid	8021B	103134
890-7688-13	BH-271 (4')	Total/NA	Solid	8021B	103134
890-7688-14	BH-272 (4')	Total/NA	Solid	8021B	103134
890-7688-15	BH-273 (4')	Total/NA	Solid	8021B	103134
890-7688-16	BH-274 (4')	Total/NA	Solid	8021B	103134
890-7688-17	BH-275 (4')	Total/NA	Solid	8021B	103134
890-7688-18	BH-276 (4')	Total/NA	Solid	8021B	103134
890-7688-19	BH-277 (4')	Total/NA	Solid	8021B	103134
MB 880-103134/5-A	Method Blank	Total/NA	Solid	8021B	103134
LCS 880-103134/1-A	Lab Control Sample	Total/NA	Solid	8021B	103134
LCSD 880-103134/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103134
890-7688-11 MS	BH-269 (4')	Total/NA	Solid	8021B	103134
890-7688-11 MSD	BH-269 (4')	Total/NA	Solid	8021B	103134

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

GC VOA

Prep Batch: 103132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Total/NA	Solid	5035	
890-7688-2	BH-260 (4')	Total/NA	Solid	5035	
890-7688-3	BH-261 (4')	Total/NA	Solid	5035	
890-7688-4	BH-262 (4')	Total/NA	Solid	5035	
890-7688-5	BH-263 (4')	Total/NA	Solid	5035	
890-7688-6	BH-264 (4')	Total/NA	Solid	5035	
890-7688-7	BH-265 (4')	Total/NA	Solid	5035	
890-7688-8	BH-266 (4')	Total/NA	Solid	5035	
890-7688-9	BH-267 (4')	Total/NA	Solid	5035	
890-7688-10	BH-268 (4')	Total/NA	Solid	5035	
890-7688-29	SW-104	Total/NA	Solid	5035	
890-7688-30	BH-279 (4)	Total/NA	Solid	5035	
MB 880-103132/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103132/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103132/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7688-1 MS	BH-259 (4')	Total/NA	Solid	5035	
890-7688-1 MSD	BH-259 (4')	Total/NA	Solid	5035	

Prep Batch: 103133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-20	BH-278 (4')	Total/NA	Solid	5035	
890-7688-21	BH-280 (4')	Total/NA	Solid	5035	
890-7688-22	BH-281 (4')	Total/NA	Solid	5035	
890-7688-23	BH-282 (4')	Total/NA	Solid	5035	
890-7688-24	SW-99	Total/NA	Solid	5035	
890-7688-25	SW-100	Total/NA	Solid	5035	
890-7688-26	SW-101	Total/NA	Solid	5035	
890-7688-27	SW-102	Total/NA	Solid	5035	
890-7688-28	SW-103	Total/NA	Solid	5035	
MB 880-103133/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103133/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103133/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7688-20 MS	BH-278 (4')	Total/NA	Solid	5035	
890-7688-20 MSD	BH-278 (4')	Total/NA	Solid	5035	

Prep Batch: 103134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-11	BH-269 (4')	Total/NA	Solid	5035	
890-7688-12	BH-270 (4')	Total/NA	Solid	5035	
890-7688-13	BH-271 (4')	Total/NA	Solid	5035	
890-7688-14	BH-272 (4')	Total/NA	Solid	5035	
890-7688-15	BH-273 (4')	Total/NA	Solid	5035	
890-7688-16	BH-274 (4')	Total/NA	Solid	5035	
890-7688-17	BH-275 (4')	Total/NA	Solid	5035	
890-7688-18	BH-276 (4')	Total/NA	Solid	5035	
890-7688-19	BH-277 (4')	Total/NA	Solid	5035	
MB 880-103134/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103134/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103134/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7688-11 MS	BH-269 (4')	Total/NA	Solid	5035	
890-7688-11 MSD	BH-269 (4')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

GC VOA

Analysis Batch: 103260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Total/NA	Solid	Total BTEX	
890-7688-2	BH-260 (4')	Total/NA	Solid	Total BTEX	
890-7688-3	BH-261 (4')	Total/NA	Solid	Total BTEX	
890-7688-4	BH-262 (4')	Total/NA	Solid	Total BTEX	
890-7688-5	BH-263 (4')	Total/NA	Solid	Total BTEX	
890-7688-6	BH-264 (4')	Total/NA	Solid	Total BTEX	
890-7688-7	BH-265 (4')	Total/NA	Solid	Total BTEX	
890-7688-8	BH-266 (4')	Total/NA	Solid	Total BTEX	
890-7688-9	BH-267 (4')	Total/NA	Solid	Total BTEX	
890-7688-10	BH-268 (4')	Total/NA	Solid	Total BTEX	
890-7688-11	BH-269 (4')	Total/NA	Solid	Total BTEX	
890-7688-12	BH-270 (4')	Total/NA	Solid	Total BTEX	
890-7688-13	BH-271 (4')	Total/NA	Solid	Total BTEX	
890-7688-14	BH-272 (4')	Total/NA	Solid	Total BTEX	
890-7688-15	BH-273 (4')	Total/NA	Solid	Total BTEX	
890-7688-16	BH-274 (4')	Total/NA	Solid	Total BTEX	
890-7688-17	BH-275 (4')	Total/NA	Solid	Total BTEX	
890-7688-18	BH-276 (4')	Total/NA	Solid	Total BTEX	
890-7688-19	BH-277 (4')	Total/NA	Solid	Total BTEX	
890-7688-20	BH-278 (4')	Total/NA	Solid	Total BTEX	
890-7688-21	BH-280 (4')	Total/NA	Solid	Total BTEX	
890-7688-22	BH-281 (4')	Total/NA	Solid	Total BTEX	
890-7688-23	BH-282 (4')	Total/NA	Solid	Total BTEX	
890-7688-24	SW-99	Total/NA	Solid	Total BTEX	
890-7688-25	SW-100	Total/NA	Solid	Total BTEX	
890-7688-26	SW-101	Total/NA	Solid	Total BTEX	
890-7688-27	SW-102	Total/NA	Solid	Total BTEX	
890-7688-28	SW-103	Total/NA	Solid	Total BTEX	
890-7688-29	SW-104	Total/NA	Solid	Total BTEX	
890-7688-30	BH-279 (4)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-21	BH-280 (4')	Total/NA	Solid	8015NM Prep	
890-7688-22	BH-281 (4')	Total/NA	Solid	8015NM Prep	
890-7688-23	BH-282 (4')	Total/NA	Solid	8015NM Prep	
890-7688-25	SW-100	Total/NA	Solid	8015NM Prep	
890-7688-26	SW-101	Total/NA	Solid	8015NM Prep	
890-7688-27	SW-102	Total/NA	Solid	8015NM Prep	
890-7688-28	SW-103	Total/NA	Solid	8015NM Prep	
890-7688-29	SW-104	Total/NA	Solid	8015NM Prep	
890-7688-30	BH-279 (4)	Total/NA	Solid	8015NM Prep	
MB 880-103015/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103015/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54554-A-41-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54554-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

GC Semi VOA

Analysis Batch: 103048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-21	BH-280 (4')	Total/NA	Solid	8015B NM	103015
890-7688-22	BH-281 (4')	Total/NA	Solid	8015B NM	103015
890-7688-23	BH-282 (4')	Total/NA	Solid	8015B NM	103015
890-7688-25	SW-100	Total/NA	Solid	8015B NM	103015
890-7688-26	SW-101	Total/NA	Solid	8015B NM	103015
890-7688-27	SW-102	Total/NA	Solid	8015B NM	103015
890-7688-28	SW-103	Total/NA	Solid	8015B NM	103015
890-7688-29	SW-104	Total/NA	Solid	8015B NM	103015
890-7688-30	BH-279 (4)	Total/NA	Solid	8015B NM	103015
MB 880-103015/1-A	Method Blank	Total/NA	Solid	8015B NM	103015
LCS 880-103015/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103015
LCSD 880-103015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103015
880-54554-A-41-C MS	Matrix Spike	Total/NA	Solid	8015B NM	103015
880-54554-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	103015

Analysis Batch: 103050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Total/NA	Solid	8015B NM	103135
890-7688-2	BH-260 (4')	Total/NA	Solid	8015B NM	103135
890-7688-3	BH-261 (4')	Total/NA	Solid	8015B NM	103135
890-7688-4	BH-262 (4')	Total/NA	Solid	8015B NM	103135
890-7688-5	BH-263 (4')	Total/NA	Solid	8015B NM	103135
890-7688-6	BH-264 (4')	Total/NA	Solid	8015B NM	103135
890-7688-7	BH-265 (4')	Total/NA	Solid	8015B NM	103135
890-7688-8	BH-266 (4')	Total/NA	Solid	8015B NM	103135
890-7688-9	BH-267 (4')	Total/NA	Solid	8015B NM	103135
890-7688-10	BH-268 (4')	Total/NA	Solid	8015B NM	103135
890-7688-11	BH-269 (4')	Total/NA	Solid	8015B NM	103135
890-7688-12	BH-270 (4')	Total/NA	Solid	8015B NM	103135
890-7688-13	BH-271 (4')	Total/NA	Solid	8015B NM	103135
890-7688-14	BH-272 (4')	Total/NA	Solid	8015B NM	103135
890-7688-15	BH-273 (4')	Total/NA	Solid	8015B NM	103135
890-7688-16	BH-274 (4')	Total/NA	Solid	8015B NM	103135
890-7688-17	BH-275 (4')	Total/NA	Solid	8015B NM	103135
890-7688-18	BH-276 (4')	Total/NA	Solid	8015B NM	103135
890-7688-19	BH-277 (4')	Total/NA	Solid	8015B NM	103135
890-7688-20	BH-278 (4')	Total/NA	Solid	8015B NM	103135
MB 880-103135/1-A	Method Blank	Total/NA	Solid	8015B NM	103135
LCS 880-103135/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103135
LCSD 880-103135/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103135
890-7688-1 MS	BH-259 (4')	Total/NA	Solid	8015B NM	103135
890-7688-1 MSD	BH-259 (4')	Total/NA	Solid	8015B NM	103135

Prep Batch: 103135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Total/NA	Solid	8015NM Prep	
890-7688-2	BH-260 (4')	Total/NA	Solid	8015NM Prep	
890-7688-3	BH-261 (4')	Total/NA	Solid	8015NM Prep	
890-7688-4	BH-262 (4')	Total/NA	Solid	8015NM Prep	
890-7688-5	BH-263 (4')	Total/NA	Solid	8015NM Prep	
890-7688-6	BH-264 (4')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

GC Semi VOA (Continued)

Prep Batch: 103135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-7	BH-265 (4')	Total/NA	Solid	8015NM Prep	
890-7688-8	BH-266 (4')	Total/NA	Solid	8015NM Prep	
890-7688-9	BH-267 (4')	Total/NA	Solid	8015NM Prep	
890-7688-10	BH-268 (4')	Total/NA	Solid	8015NM Prep	
890-7688-11	BH-269 (4')	Total/NA	Solid	8015NM Prep	
890-7688-12	BH-270 (4')	Total/NA	Solid	8015NM Prep	
890-7688-13	BH-271 (4')	Total/NA	Solid	8015NM Prep	
890-7688-14	BH-272 (4')	Total/NA	Solid	8015NM Prep	
890-7688-15	BH-273 (4')	Total/NA	Solid	8015NM Prep	
890-7688-16	BH-274 (4')	Total/NA	Solid	8015NM Prep	
890-7688-17	BH-275 (4')	Total/NA	Solid	8015NM Prep	
890-7688-18	BH-276 (4')	Total/NA	Solid	8015NM Prep	
890-7688-19	BH-277 (4')	Total/NA	Solid	8015NM Prep	
890-7688-20	BH-278 (4')	Total/NA	Solid	8015NM Prep	
MB 880-103135/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103135/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103135/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7688-1 MS	BH-259 (4')	Total/NA	Solid	8015NM Prep	
890-7688-1 MSD	BH-259 (4')	Total/NA	Solid	8015NM Prep	

Prep Batch: 103287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-24	SW-99	Total/NA	Solid	8015NM Prep	
MB 880-103287/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103287/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54699-A-28-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54699-A-28-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-24	SW-99	Total/NA	Solid	8015B NM	103287
MB 880-103287/1-A	Method Blank	Total/NA	Solid	8015B NM	103287
LCS 880-103287/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103287
LCSD 880-103287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103287
880-54699-A-28-C MS	Matrix Spike	Total/NA	Solid	8015B NM	103287
880-54699-A-28-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	103287

Analysis Batch: 103302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Total/NA	Solid	8015 NM	
890-7688-2	BH-260 (4')	Total/NA	Solid	8015 NM	
890-7688-3	BH-261 (4')	Total/NA	Solid	8015 NM	
890-7688-4	BH-262 (4')	Total/NA	Solid	8015 NM	
890-7688-5	BH-263 (4')	Total/NA	Solid	8015 NM	
890-7688-6	BH-264 (4')	Total/NA	Solid	8015 NM	
890-7688-7	BH-265 (4')	Total/NA	Solid	8015 NM	
890-7688-8	BH-266 (4')	Total/NA	Solid	8015 NM	
890-7688-9	BH-267 (4')	Total/NA	Solid	8015 NM	
890-7688-10	BH-268 (4')	Total/NA	Solid	8015 NM	
890-7688-11	BH-269 (4')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

GC Semi VOA (Continued)

Analysis Batch: 103302 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-12	BH-270 (4')	Total/NA	Solid	8015 NM	
890-7688-13	BH-271 (4')	Total/NA	Solid	8015 NM	
890-7688-14	BH-272 (4')	Total/NA	Solid	8015 NM	
890-7688-15	BH-273 (4')	Total/NA	Solid	8015 NM	
890-7688-16	BH-274 (4')	Total/NA	Solid	8015 NM	
890-7688-17	BH-275 (4')	Total/NA	Solid	8015 NM	
890-7688-18	BH-276 (4')	Total/NA	Solid	8015 NM	
890-7688-19	BH-277 (4')	Total/NA	Solid	8015 NM	
890-7688-20	BH-278 (4')	Total/NA	Solid	8015 NM	
890-7688-21	BH-280 (4')	Total/NA	Solid	8015 NM	
890-7688-22	BH-281 (4')	Total/NA	Solid	8015 NM	
890-7688-23	BH-282 (4')	Total/NA	Solid	8015 NM	
890-7688-24	SW-99	Total/NA	Solid	8015 NM	
890-7688-25	SW-100	Total/NA	Solid	8015 NM	
890-7688-26	SW-101	Total/NA	Solid	8015 NM	
890-7688-27	SW-102	Total/NA	Solid	8015 NM	
890-7688-28	SW-103	Total/NA	Solid	8015 NM	
890-7688-29	SW-104	Total/NA	Solid	8015 NM	
890-7688-30	BH-279 (4)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Soluble	Solid	DI Leach	
890-7688-2	BH-260 (4')	Soluble	Solid	DI Leach	
890-7688-3	BH-261 (4')	Soluble	Solid	DI Leach	
890-7688-4	BH-262 (4')	Soluble	Solid	DI Leach	
890-7688-5	BH-263 (4')	Soluble	Solid	DI Leach	
890-7688-6	BH-264 (4')	Soluble	Solid	DI Leach	
890-7688-7	BH-265 (4')	Soluble	Solid	DI Leach	
890-7688-8	BH-266 (4')	Soluble	Solid	DI Leach	
890-7688-9	BH-267 (4')	Soluble	Solid	DI Leach	
890-7688-10	BH-268 (4')	Soluble	Solid	DI Leach	
890-7688-11	BH-269 (4')	Soluble	Solid	DI Leach	
890-7688-12	BH-270 (4')	Soluble	Solid	DI Leach	
890-7688-13	BH-271 (4')	Soluble	Solid	DI Leach	
890-7688-14	BH-272 (4')	Soluble	Solid	DI Leach	
890-7688-15	BH-273 (4')	Soluble	Solid	DI Leach	
890-7688-16	BH-274 (4')	Soluble	Solid	DI Leach	
890-7688-17	BH-275 (4')	Soluble	Solid	DI Leach	
890-7688-18	BH-276 (4')	Soluble	Solid	DI Leach	
890-7688-19	BH-277 (4')	Soluble	Solid	DI Leach	
890-7688-20	BH-278 (4')	Soluble	Solid	DI Leach	
MB 880-103163/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103163/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103163/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7688-1 MS	BH-259 (4')	Soluble	Solid	DI Leach	
890-7688-1 MSD	BH-259 (4')	Soluble	Solid	DI Leach	
890-7688-11 MS	BH-269 (4')	Soluble	Solid	DI Leach	
890-7688-11 MSD	BH-269 (4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

HPLC/IC

Analysis Batch: 103164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-1	BH-259 (4')	Soluble	Solid	300.0	103163
890-7688-2	BH-260 (4')	Soluble	Solid	300.0	103163
890-7688-3	BH-261 (4')	Soluble	Solid	300.0	103163
890-7688-4	BH-262 (4')	Soluble	Solid	300.0	103163
890-7688-5	BH-263 (4')	Soluble	Solid	300.0	103163
890-7688-6	BH-264 (4')	Soluble	Solid	300.0	103163
890-7688-7	BH-265 (4')	Soluble	Solid	300.0	103163
890-7688-8	BH-266 (4')	Soluble	Solid	300.0	103163
890-7688-9	BH-267 (4')	Soluble	Solid	300.0	103163
890-7688-10	BH-268 (4')	Soluble	Solid	300.0	103163
890-7688-11	BH-269 (4')	Soluble	Solid	300.0	103163
890-7688-12	BH-270 (4')	Soluble	Solid	300.0	103163
890-7688-13	BH-271 (4')	Soluble	Solid	300.0	103163
890-7688-14	BH-272 (4')	Soluble	Solid	300.0	103163
890-7688-15	BH-273 (4')	Soluble	Solid	300.0	103163
890-7688-16	BH-274 (4')	Soluble	Solid	300.0	103163
890-7688-17	BH-275 (4')	Soluble	Solid	300.0	103163
890-7688-18	BH-276 (4')	Soluble	Solid	300.0	103163
890-7688-19	BH-277 (4')	Soluble	Solid	300.0	103163
890-7688-20	BH-278 (4')	Soluble	Solid	300.0	103163
MB 880-103163/1-A	Method Blank	Soluble	Solid	300.0	103163
LCS 880-103163/2-A	Lab Control Sample	Soluble	Solid	300.0	103163
LCSD 880-103163/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103163
890-7688-1 MS	BH-259 (4')	Soluble	Solid	300.0	103163
890-7688-1 MSD	BH-259 (4')	Soluble	Solid	300.0	103163
890-7688-11 MS	BH-269 (4')	Soluble	Solid	300.0	103163
890-7688-11 MSD	BH-269 (4')	Soluble	Solid	300.0	103163

Leach Batch: 103207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-21	BH-280 (4')	Soluble	Solid	DI Leach	
890-7688-22	BH-281 (4')	Soluble	Solid	DI Leach	
890-7688-23	BH-282 (4')	Soluble	Solid	DI Leach	
890-7688-24	SW-99	Soluble	Solid	DI Leach	
890-7688-25	SW-100	Soluble	Solid	DI Leach	
890-7688-26	SW-101	Soluble	Solid	DI Leach	
890-7688-27	SW-102	Soluble	Solid	DI Leach	
MB 880-103207/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103207/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103207/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7688-24 MS	SW-99	Soluble	Solid	DI Leach	
890-7688-24 MSD	SW-99	Soluble	Solid	DI Leach	

Analysis Batch: 103216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-21	BH-280 (4')	Soluble	Solid	300.0	103207
890-7688-22	BH-281 (4')	Soluble	Solid	300.0	103207
890-7688-23	BH-282 (4')	Soluble	Solid	300.0	103207
890-7688-24	SW-99	Soluble	Solid	300.0	103207
890-7688-25	SW-100	Soluble	Solid	300.0	103207
890-7688-26	SW-101	Soluble	Solid	300.0	103207

QC Association Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

HPLC/IC (Continued)

Analysis Batch: 103216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-27	SW-102	Soluble	Solid	300.0	103207
MB 880-103207/1-A	Method Blank	Soluble	Solid	300.0	103207
LCS 880-103207/2-A	Lab Control Sample	Soluble	Solid	300.0	103207
LCSD 880-103207/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103207
890-7688-24 MS	SW-99	Soluble	Solid	300.0	103207
890-7688-24 MSD	SW-99	Soluble	Solid	300.0	103207

Leach Batch: 103243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-28	SW-103	Soluble	Solid	DI Leach	
890-7688-29	SW-104	Soluble	Solid	DI Leach	
890-7688-30	BH-279 (4)	Soluble	Solid	DI Leach	
MB 880-103243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54699-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-54699-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 103268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7688-28	SW-103	Soluble	Solid	300.0	103243
890-7688-29	SW-104	Soluble	Solid	300.0	103243
890-7688-30	BH-279 (4)	Soluble	Solid	300.0	103243
MB 880-103243/1-A	Method Blank	Soluble	Solid	300.0	103243
LCS 880-103243/2-A	Lab Control Sample	Soluble	Solid	300.0	103243
LCSD 880-103243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103243
880-54699-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	103243
880-54699-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	103243

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-259 (4')

Lab Sample ID: 890-7688-1
Matrix: Solid
Date Collected: 02/18/25 07:00
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 11:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 11:50	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 18:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 18:29	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103163	02/19/25 09:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103164	02/19/25 14:43	CH	EET MID

Client Sample ID: BH-260 (4')

Lab Sample ID: 890-7688-2
Matrix: Solid
Date Collected: 02/18/25 07:05
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:08	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 19:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 19:16	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 15:06	CH	EET MID

Client Sample ID: BH-261 (4')

Lab Sample ID: 890-7688-3
Matrix: Solid
Date Collected: 02/18/25 07:10
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:28	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 19:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 19:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 15:13	CH	EET MID

Client Sample ID: BH-262 (4')

Lab Sample ID: 890-7688-4
Matrix: Solid
Date Collected: 02/18/25 07:15
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:48	MNR	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Job ID: 890-7688-1
Project/Site: iceman SWD

Client Sample ID: BH-262 (4')
Lab Sample ID: 890-7688-4
Date Collected: 02/18/25 07:15
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103302	02/19/25 19:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 19:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 15:20	CH	EET MID

Client Sample ID: BH-263 (4')
Lab Sample ID: 890-7688-5
Date Collected: 02/18/25 07:20
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:09	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 20:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 20:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 15:28	CH	EET MID

Client Sample ID: BH-264 (4')
Lab Sample ID: 890-7688-6
Date Collected: 02/18/25 07:25
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:29	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 20:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 20:21	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 15:50	CH	EET MID

Client Sample ID: BH-265 (4')
Lab Sample ID: 890-7688-7
Date Collected: 02/18/25 07:30
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:50	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 20:38	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-265 (4')

Date Collected: 02/18/25 07:30
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 15:58	CH	EET MID

Client Sample ID: BH-266 (4')

Date Collected: 02/18/25 07:35
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 15:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 15:10	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 20:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 20:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 16:05	CH	EET MID

Client Sample ID: BH-267 (4')

Date Collected: 02/18/25 07:40
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 15:31	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 21:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 21:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 16:12	CH	EET MID

Client Sample ID: BH-268 (4')

Date Collected: 02/18/25 07:45
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 15:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 15:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 21:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 21:32	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 16:20	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-269 (4')

Lab Sample ID: 890-7688-11
Matrix: Solid
Date Collected: 02/18/25 07:05
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 12:01	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 22:06	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 16:27	CH	EET MID

Client Sample ID: BH-270 (4')

Lab Sample ID: 890-7688-12
Matrix: Solid
Date Collected: 02/18/25 07:55
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 12:22	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 22:21	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 20:09	CH	EET MID

Client Sample ID: BH-271 (4')

Lab Sample ID: 890-7688-13
Matrix: Solid
Date Collected: 02/18/25 08:00
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 12:42	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 22:37	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 20:16	CH	EET MID

Client Sample ID: BH-272 (4')

Lab Sample ID: 890-7688-14
Matrix: Solid
Date Collected: 02/18/25 08:05
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:03	MNR	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-272 (4')

Lab Sample ID: 890-7688-14
Matrix: Solid
Date Collected: 02/18/25 08:05
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 22:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103164	02/19/25 20:38	CH	EET MID

Client Sample ID: BH-273 (4')

Lab Sample ID: 890-7688-15
Matrix: Solid
Date Collected: 02/18/25 08:10
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:23	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 23:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 23:08	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103164	02/19/25 20:46	CH	EET MID

Client Sample ID: BH-274 (4')

Lab Sample ID: 890-7688-16
Matrix: Solid
Date Collected: 02/18/25 08:15
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:44	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 23:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 23:24	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103164	02/19/25 20:53	CH	EET MID

Client Sample ID: BH-275 (4')

Lab Sample ID: 890-7688-17
Matrix: Solid
Date Collected: 02/18/25 08:20
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:04	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 23:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 23:40	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-275 (4')

Lab Sample ID: 890-7688-17
Matrix: Solid
Date Collected: 02/18/25 08:20
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 21:01	CH	EET MID

Client Sample ID: BH-276 (4')

Lab Sample ID: 890-7688-18
Matrix: Solid
Date Collected: 02/18/25 08:25
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:25	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 23:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/19/25 23:55	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 21:08	CH	EET MID

Client Sample ID: BH-277 (4')

Lab Sample ID: 890-7688-19
Matrix: Solid
Date Collected: 02/18/25 08:30
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103134	02/19/25 08:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103129	02/19/25 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:46	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/20/25 00:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/20/25 00:10	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103164	02/19/25 21:16	CH	EET MID

Client Sample ID: BH-278 (4')

Lab Sample ID: 890-7688-20
Matrix: Solid
Date Collected: 02/18/25 08:35
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 12:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 12:00	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/20/25 00:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103135	02/19/25 08:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103050	02/20/25 00:25	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103163	02/19/25 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103164	02/19/25 21:23	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: BH-280 (4')

Lab Sample ID: 890-7688-21

Date Collected: 02/18/25 08:40
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 12:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 12:21	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 20:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 20:21	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	103207	02/19/25 14:53	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103216	02/19/25 21:56	CH	EET MID

Client Sample ID: BH-281 (4')

Lab Sample ID: 890-7688-22

Date Collected: 02/18/25 08:45
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 12:41	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 20:38	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103207	02/19/25 14:53	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103216	02/19/25 22:02	CH	EET MID

Client Sample ID: BH-282 (4')

Lab Sample ID: 890-7688-23

Date Collected: 02/18/25 08:50
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 13:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:02	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 20:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 20:56	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	103207	02/19/25 14:53	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103216	02/19/25 22:09	CH	EET MID

Client Sample ID: SW-99

Lab Sample ID: 890-7688-24

Date Collected: 02/18/25 08:55
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 13:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:22	MNR	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: SW-99
Date Collected: 02/18/25 08:55
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103302	02/21/25 03:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103287	02/20/25 11:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/21/25 03:20	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103207	02/19/25 14:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103216	02/19/25 22:15	CH	EET MID

Client Sample ID: SW-100
Date Collected: 02/18/25 09:00
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 13:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 13:42	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 21:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 21:32	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103207	02/19/25 14:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103216	02/19/25 22:33	CH	EET MID

Client Sample ID: SW-101
Date Collected: 02/18/25 09:05
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:03	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 22:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103207	02/19/25 14:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103216	02/19/25 22:39	CH	EET MID

Client Sample ID: SW-102
Date Collected: 02/18/25 09:10
Date Received: 02/18/25 14:49

Lab Sample ID: 890-7688-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 14:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:23	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 22:21	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Client Sample ID: SW-102

Lab Sample ID: 890-7688-27

Date Collected: 02/18/25 09:10
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	103207	02/19/25 14:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103216	02/19/25 22:57	CH	EET MID

Client Sample ID: SW-103

Lab Sample ID: 890-7688-28

Date Collected: 02/18/25 09:15
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103127	02/19/25 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 14:44	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 22:37	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103243	02/20/25 08:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103268	02/20/25 14:36	CH	EET MID

Client Sample ID: SW-104

Lab Sample ID: 890-7688-29

Date Collected: 02/18/25 09:20
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 17:14	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 22:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 22:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103243	02/20/25 08:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103268	02/20/25 14:42	CH	EET MID

Client Sample ID: BH-279 (4)

Lab Sample ID: 890-7688-30

Date Collected: 02/18/25 09:25
Matrix: Solid
Date Received: 02/18/25 14:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103132	02/19/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103126	02/19/25 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103260	02/19/25 17:35	MNR	EET MID
Total/NA	Analysis	8015 NM		1			103302	02/19/25 23:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103015	02/18/25 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103048	02/19/25 23:08	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103243	02/20/25 08:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103268	02/20/25 14:47	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: iceman SWD

Job ID: 890-7688-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7688-1	BH-259 (4')	Solid	02/18/25 07:00	02/18/25 14:49
890-7688-2	BH-260 (4')	Solid	02/18/25 07:05	02/18/25 14:49
890-7688-3	BH-261 (4')	Solid	02/18/25 07:10	02/18/25 14:49
890-7688-4	BH-262 (4')	Solid	02/18/25 07:15	02/18/25 14:49
890-7688-5	BH-263 (4')	Solid	02/18/25 07:20	02/18/25 14:49
890-7688-6	BH-264 (4')	Solid	02/18/25 07:25	02/18/25 14:49
890-7688-7	BH-265 (4')	Solid	02/18/25 07:30	02/18/25 14:49
890-7688-8	BH-266 (4')	Solid	02/18/25 07:35	02/18/25 14:49
890-7688-9	BH-267 (4')	Solid	02/18/25 07:40	02/18/25 14:49
890-7688-10	BH-268 (4')	Solid	02/18/25 07:45	02/18/25 14:49
890-7688-11	BH-269 (4')	Solid	02/18/25 07:05	02/18/25 14:49
890-7688-12	BH-270 (4')	Solid	02/18/25 07:55	02/18/25 14:49
890-7688-13	BH-271 (4')	Solid	02/18/25 08:00	02/18/25 14:49
890-7688-14	BH-272 (4')	Solid	02/18/25 08:05	02/18/25 14:49
890-7688-15	BH-273 (4')	Solid	02/18/25 08:10	02/18/25 14:49
890-7688-16	BH-274 (4')	Solid	02/18/25 08:15	02/18/25 14:49
890-7688-17	BH-275 (4')	Solid	02/18/25 08:20	02/18/25 14:49
890-7688-18	BH-276 (4')	Solid	02/18/25 08:25	02/18/25 14:49
890-7688-19	BH-277 (4')	Solid	02/18/25 08:30	02/18/25 14:49
890-7688-20	BH-278 (4')	Solid	02/18/25 08:35	02/18/25 14:49
890-7688-21	BH-280 (4')	Solid	02/18/25 08:40	02/18/25 14:49
890-7688-22	BH-281 (4')	Solid	02/18/25 08:45	02/18/25 14:49
890-7688-23	BH-282 (4')	Solid	02/18/25 08:50	02/18/25 14:49
890-7688-24	SW-99	Solid	02/18/25 08:55	02/18/25 14:49
890-7688-25	SW-100	Solid	02/18/25 09:00	02/18/25 14:49
890-7688-26	SW-101	Solid	02/18/25 09:05	02/18/25 14:49
890-7688-27	SW-102	Solid	02/18/25 09:10	02/18/25 14:49
890-7688-28	SW-103	Solid	02/18/25 09:15	02/18/25 14:49
890-7688-29	SW-104	Solid	02/18/25 09:20	02/18/25 14:49
890-7688-30	BH-279 (4)	Solid	02/18/25 09:25	02/18/25 14:49

Page 1412 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7688 Chain of Custody

2/21/2025

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-259 (4')	2/18/2025	7:00		X				X					X		X												X							
	BH-260 (4')	2/18/2025	7:05		X				X					X		X												X							
	BH-261 (4')	2/18/2025	7:10		X				X					X		X												X							
	BH-262 (4')	2/18/2025	7:15		X				X					X		X												X							
	BH-263 (4')	2/18/2025	7:20		X				X					X		X												X							
	BH-264 (4')	2/18/2025	7:25		X				X					X		X												X							
	BH-265 (4')	2/18/2025	7:30		X				X					X		X												X							
	BH-266 (4')	2/18/2025	7:35		X				X					X		X												X							
	BH-267 (4')	2/18/2025	7:40		X				X					X		X												X							
	BH-268 (4')	2/18/2025	7:45		X				X					X		X												X							

Relinquished by:	Date: 2-18-25	Time: 1447	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 2/18 Time: 14:49

LAB USE ONLY

Sample Temperature 5.6

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 67 of 71

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1413 of 1592

Analysis Request of Chain of Custody Record

2/21/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-269 (4')	2/18/2025	7:50		X			X			X		X												X				
	BH-270 (4')	2/18/2025	7:55		X			X			X		X												X				
	BH-271 (4')	2/18/2025	8:00		X			X			X		X												X				
	BH-272 (4')	2/18/2025	8:05		X			X			X		X												X				
	BH-273 (4')	2/18/2025	8:10		X			X			X		X												X				
	BH-274 (4')	2/18/2025	8:15		X			X			X		X												X				
	BH-275 (4')	2/18/2025	8:20		X			X			X		X												X				
	BH-276 (4')	2/18/2025	8:25		X			X			X		X												X				
	BH-277 (4')	2/18/2025	8:30		X			X			X		X												X				
	BH-278 (4')	2/18/2025	8:35		X			X			X		X												X				

Page 68 of 71

Relinquished by:	Date: 2-18-25	Time: 1447	Received by: Date: Time: 2/18
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 5.6

REMARKS:

- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1414 of 1592

Analysis Request of Chain of Custody Record

2/21/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance			Hold
	BH-280 (4')	2/18/2025	8:40		X			X			X		X												X						
	BH-281 (4')	2/18/2025	8:45		X			X			X		X												X						
	BH-282 (4')	2/18/2025	8:50		X			X			X		X												X						
	SW-99	2/18/2025	8:55		X			X			X		X												X						
	SW-100	2/18/2025	9:00		X			X			X		X												X						
	SW-101	2/18/2025	9:05		X			X			X		X												X						
	SW-102	2/18/2025	9:10		X			X			X		X												X						
	SW-103	2/18/2025	9:15		X			X			X		X												X						
	SW-104	2/18/2025	9:20		X			X			X		X												X						
	BH-279 (4')	2-18-25	8:25		X			X			X		X												X						

Relinquished by:	Date: 2-18-25	Time: 1447	Received by: Date: 14.49 2/18 Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 5.6

REMARKS:

X RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 69 of 71

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7688-1

Login Number: 7688

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7688-1

Login Number: 7688
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 02/19/25 08:20 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/21/2025 2:35:15 PM

JOB DESCRIPTION

ICEMAN SWD
212C - MD - 03085

JOB NUMBER

890-7692-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

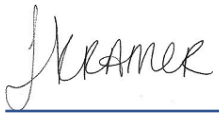
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/21/2025 2:35:15 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-7692-1
SDG: 212C - MD - 03085

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 30
QC Sample Results 32
QC Association Summary 43
Lab Chronicle 51
Certification Summary 61
Method Summary 62
Sample Summary 63
Chain of Custody 64
Receipt Checklists 67

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-7692-1

Job ID: 890-7692-1 Eurofins Carlsbad

Job Narrative
890-7692-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/19/2025 3:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 283 (4') (890-7692-1), BH - 284 (4') (890-7692-2), BH - 285 (4') (890-7692-3), BH - 286 (4') (890-7692-4), BH - 287 (4') (890-7692-5), BH - 288 (4') (890-7692-6), BH - 289 (4') (890-7692-7), BH - 290 (4') (890-7692-8), BH - 291 (4') (890-7692-9), BH - 292 (4') (890-7692-10), BH - 293 (4') (890-7692-11), BH - 294 (4') (890-7692-12), BH - 295 (4') (890-7692-13), BH - 296 (4') (890-7692-14), BH - 297 (4') (890-7692-15), BH - 298 (4') (890-7692-16), BH - 299 (4') (890-7692-17), BH - 300 (4') (890-7692-18), BH - 301 (4') (890-7692-19), BH - 302 (4') (890-7692-20), BH - 303 (4') (890-7692-21), BH - 304 (4') (890-7692-22), BH - 305 (4') (890-7692-23), BH - 306 (4') (890-7692-24), BH - 307 (4') (890-7692-25), BH - 308 (4') (890-7692-26), BH - 309 (4') (890-7692-27), BH - 310 (4') (890-7692-28), BH - 311 (4') (890-7692-29) and SW - 107 (890-7692-30).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-103028 and analytical batch 880-103290 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH - 298 (4') (890-7692-16) and BH - 306 (4') (890-7692-24). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103029 and analytical batch 880-103292 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103029 and analytical batch 880-103292 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 283 (4')

Lab Sample ID: 890-7692-1
Matrix: Solid
Date Collected: 02/19/25 07:00
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/25 08:23	02/20/25 11:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/25 08:23	02/20/25 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/20/25 08:23*	*02/20/25 11:53*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/20/25 08:23*	*02/20/25 11:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/20/25 11:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/25 14:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:06	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:06*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2040**		49.6		mg/Kg			02/20/25 15:33	5

Client Sample ID: BH - 284 (4')

Lab Sample ID: 890-7692-2
Matrix: Solid
Date Collected: 02/19/25 07:05
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 16:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 16:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 08:23*	*02/20/25 16:32*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/20/25 08:23*	*02/20/25 16:32*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 284 (4')

Lab Sample ID: 890-7692-2
Matrix: Solid
Date Collected: 02/19/25 07:05
Date Received: 02/19/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 16:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 14:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:22	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:22*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**991**		10.1		mg/Kg			02/20/25 15:50	1

Client Sample ID: BH - 285 (4')

Lab Sample ID: 890-7692-3
Matrix: Solid
Date Collected: 02/19/25 07:10
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 16:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 16:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 08:23*	*02/20/25 16:52*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 08:23*	*02/20/25 16:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 14:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:36	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 285 (4')

Lab Sample ID: 890-7692-3
Date Collected: 02/19/25 07:10
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:36	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:36*	*1*
o-Terphenyl	*83*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**197**		9.94		mg/Kg			02/20/25 15:56	1

Client Sample ID: BH - 286 (4')

Lab Sample ID: 890-7692-4
Date Collected: 02/19/25 07:15
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 17:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 17:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 17:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 08:23	02/20/25 17:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 08:23	02/20/25 17:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/20/25 08:23*	*02/20/25 17:12*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/20/25 08:23*	*02/20/25 17:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:07	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:07*	*1*
o-Terphenyl	*84*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:07*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 286 (4')

Lab Sample ID: 890-7692-4
Matrix: Solid
Date Collected: 02/19/25 07:15
Date Received: 02/19/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	432		9.98		mg/Kg			02/20/25 16:01	1

Client Sample ID: BH - 287 (4')

Lab Sample ID: 890-7692-5
Matrix: Solid
Date Collected: 02/19/25 07:20
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 17:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 17:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/20/25 08:23*	*02/20/25 17:33*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/20/25 08:23*	*02/20/25 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 17:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 15:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:23	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:23*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4340		50.2		mg/Kg			02/20/25 16:07	5

Client Sample ID: BH - 288 (4')

Lab Sample ID: 890-7692-6
Matrix: Solid
Date Collected: 02/19/25 07:25
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:54	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 288 (4')

Lab Sample ID: 890-7692-6
Date Collected: 02/19/25 07:25
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:23	02/20/25 17:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:23	02/20/25 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*02/20/25 08:23*	*02/20/25 17:54*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/20/25 08:23*	*02/20/25 17:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 17:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 15:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:37	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:37*	*1*
o-Terphenyl	*90*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4760**		49.8		mg/Kg			02/20/25 16:24	5

Client Sample ID: BH - 289 (4')

Lab Sample ID: 890-7692-7
Date Collected: 02/19/25 07:30
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 18:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 18:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 18:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/25 11:30	02/20/25 18:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/25 11:30	02/20/25 18:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/20/25 11:30*	*02/20/25 18:14*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/20/25 11:30*	*02/20/25 18:14*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 289 (4')

Lab Sample ID: 890-7692-7
Matrix: Solid
Date Collected: 02/19/25 07:30
Date Received: 02/19/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/20/25 18:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 15:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:53*	*1*
o-Terphenyl	*74*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2430**		50.0		mg/Kg			02/20/25 16:29	5

Client Sample ID: BH - 290 (4')

Lab Sample ID: 890-7692-8
Matrix: Solid
Date Collected: 02/19/25 07:35
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 11:30	02/20/25 18:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 11:30	02/20/25 18:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 11:30	02/20/25 18:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 11:30	02/20/25 18:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 11:30	02/20/25 18:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 11:30	02/20/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/20/25 11:30*	*02/20/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/20/25 11:30*	*02/20/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 16:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:07	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 290 (4')

Lab Sample ID: 890-7692-8
Matrix: Solid
Date Collected: 02/19/25 07:35
Date Received: 02/19/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:07	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:07*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2620**		49.9		mg/Kg			02/20/25 16:35	5

Client Sample ID: BH - 291 (4')

Lab Sample ID: 890-7692-9
Matrix: Solid
Date Collected: 02/19/25 07:40
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 11:30	02/20/25 18:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 11:30	02/20/25 18:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 11:30	02/20/25 18:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 11:30	02/20/25 18:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 11:30	02/20/25 18:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 11:30	02/20/25 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 11:30*	*02/20/25 18:55*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/20/25 11:30*	*02/20/25 18:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 16:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:24	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:24*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:24*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 291 (4')

Lab Sample ID: 890-7692-9
Matrix: Solid
Date Collected: 02/19/25 07:40
Date Received: 02/19/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		50.1		mg/Kg			02/20/25 16:41	5

Client Sample ID: BH - 292 (4')

Lab Sample ID: 890-7692-10
Matrix: Solid
Date Collected: 02/19/25 07:45
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 19:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 19:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 19:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/25 11:30	02/20/25 19:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/25 11:30	02/20/25 19:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:30	02/20/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 11:30*	*02/20/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/20/25 11:30*	*02/20/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/20/25 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/20/25 16:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:38	1
Total TPH	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:38*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	451		9.94		mg/Kg			02/20/25 16:47	1

Client Sample ID: BH - 293 (4')

Lab Sample ID: 890-7692-11
Matrix: Solid
Date Collected: 02/19/25 07:50
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:48	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 293 (4')

Lab Sample ID: 890-7692-11
Matrix: Solid
Date Collected: 02/19/25 07:50
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/25 08:25	02/20/25 11:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/25 08:25	02/20/25 11:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/20/25 08:25*	*02/20/25 11:48*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*02/20/25 08:25*	*02/20/25 11:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/20/25 11:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/25 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:53	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:53*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5390**		50.0		mg/Kg			02/20/25 16:52	5

Client Sample ID: BH - 294 (4')

Lab Sample ID: 890-7692-12
Matrix: Solid
Date Collected: 02/19/25 07:55
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 16:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 16:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/20/25 08:25*	*02/20/25 16:16*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/20/25 08:25*	*02/20/25 16:16*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 294 (4')

Lab Sample ID: 890-7692-12
Matrix: Solid
Date Collected: 02/19/25 07:55
Date Received: 02/19/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 16:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 17:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 17:07	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:07*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**234**		10.0		mg/Kg			02/20/25 17:09	1

Client Sample ID: BH - 295 (4')

Lab Sample ID: 890-7692-13
Matrix: Solid
Date Collected: 02/19/25 08:00
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 16:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 16:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/20/25 08:25*	*02/20/25 16:37*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/20/25 08:25*	*02/20/25 16:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 16:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 17:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 295 (4')

Lab Sample ID: 890-7692-13
Date Collected: 02/19/25 08:00
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:22*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**287**		10.0		mg/Kg			02/20/25 17:15	1

Client Sample ID: BH - 296 (4')

Lab Sample ID: 890-7692-14
Date Collected: 02/19/25 08:05
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 16:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 16:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 16:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 08:25	02/20/25 16:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 08:25	02/20/25 16:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/20/25 08:25*	*02/20/25 16:57*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/20/25 08:25*	*02/20/25 16:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 16:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 14:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:06	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:06*	*1*
o-Terphenyl	*74*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:06*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 296 (4')

Lab Sample ID: 890-7692-14
Matrix: Solid
Date Collected: 02/19/25 08:05
Date Received: 02/19/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3490		49.8		mg/Kg			02/20/25 17:32	5

Client Sample ID: BH - 297 (4')

Lab Sample ID: 890-7692-15
Matrix: Solid
Date Collected: 02/19/25 08:10
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 17:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 17:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 08:25*	*02/20/25 17:18*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*02/20/25 08:25*	*02/20/25 17:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 17:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 14:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 14:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 14:22	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:22*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		49.9		mg/Kg			02/20/25 17:38	5

Client Sample ID: BH - 298 (4')

Lab Sample ID: 890-7692-16
Matrix: Solid
Date Collected: 02/19/25 08:15
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:38	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 298 (4')

Lab Sample ID: 890-7692-16
Date Collected: 02/19/25 08:15
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 17:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:25	02/20/25 17:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:25	02/20/25 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*02/20/25 08:25*	*02/20/25 17:38*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*02/20/25 08:25*	*02/20/25 17:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 17:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/25 14:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:36	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*02/18/25 11:20*	*02/20/25 14:36*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*02/18/25 11:20*	*02/20/25 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2300**		50.1		mg/Kg			02/20/25 17:43	5

Client Sample ID: BH - 299 (4')

Lab Sample ID: 890-7692-17
Date Collected: 02/19/25 08:20
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 17:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 17:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 17:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 08:25	02/20/25 17:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 08:25	02/20/25 17:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/20/25 08:25*	*02/20/25 17:59*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/20/25 08:25*	*02/20/25 17:59*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 299 (4')

Lab Sample ID: 890-7692-17
Matrix: Solid
Date Collected: 02/19/25 08:20
Date Received: 02/19/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 17:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 15:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:07	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:07*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		49.7		mg/Kg			02/20/25 17:49	5

Client Sample ID: BH - 300 (4')

Lab Sample ID: 890-7692-18
Matrix: Solid
Date Collected: 02/19/25 08:25
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:25	02/20/25 18:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:25	02/20/25 18:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:25	02/20/25 18:19	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/20/25 08:25	02/20/25 18:19	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/20/25 08:25	02/20/25 18:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:25	02/20/25 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/20/25 08:25*	*02/20/25 18:19*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/20/25 08:25*	*02/20/25 18:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/20/25 18:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 15:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:23	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 300 (4')

Lab Sample ID: 890-7692-18
Date Collected: 02/19/25 08:25
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:23	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:23*	*1*
o-Terphenyl	*75*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2860**		49.6		mg/Kg			02/20/25 17:55	5

Client Sample ID: BH - 301 (4')

Lab Sample ID: 890-7692-19
Date Collected: 02/19/25 08:30
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 18:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 18:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 08:25	02/20/25 18:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 08:25	02/20/25 18:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/20/25 08:25*	*02/20/25 18:40*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/20/25 08:25*	*02/20/25 18:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 18:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 15:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:37	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:37*	*1*
o-Terphenyl	*75*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:37*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 301 (4')

Lab Sample ID: 890-7692-19
Matrix: Solid
Date Collected: 02/19/25 08:30
Date Received: 02/19/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2850		50.4		mg/Kg			02/20/25 18:00	5

Client Sample ID: BH - 302 (4')

Lab Sample ID: 890-7692-20
Matrix: Solid
Date Collected: 02/19/25 08:35
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 19:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 19:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 19:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/25 08:25	02/20/25 19:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/25 08:25	02/20/25 19:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/20/25 08:25*	*02/20/25 19:00*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/20/25 08:25*	*02/20/25 19:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/20/25 19:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 15:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:53*	*1*
o-Terphenyl	*71*		*70 - 130*	*02/18/25 11:20*	*02/20/25 15:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		50.4		mg/Kg			02/20/25 18:06	5

Client Sample ID: BH - 303 (4')

Lab Sample ID: 890-7692-21
Matrix: Solid
Date Collected: 02/19/25 08:40
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:53	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 303 (4')

Lab Sample ID: 890-7692-21
Date Collected: 02/19/25 08:40
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/25 08:27	02/20/25 11:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/25 08:27	02/20/25 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/20/25 08:27*	*02/20/25 11:53*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/20/25 08:27*	*02/20/25 11:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/20/25 11:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/20/25 16:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:07	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:07	1
Total TPH	<49.7	U	49.7		mg/Kg		02/18/25 11:20	02/20/25 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:07*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1990**		49.6		mg/Kg			02/20/25 17:14	5

Client Sample ID: BH - 304 (4')

Lab Sample ID: 890-7692-22
Date Collected: 02/19/25 08:45
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 16:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 16:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/20/25 08:27*	*02/20/25 16:32*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/20/25 08:27*	*02/20/25 16:32*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 304 (4')

Lab Sample ID: 890-7692-22
Date Collected: 02/19/25 08:45
Matrix: Solid
Date Received: 02/19/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 16:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/25 16:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:24	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:24*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2980**		50.5		mg/Kg			02/20/25 17:32	5

Client Sample ID: BH - 305 (4')

Lab Sample ID: 890-7692-23
Date Collected: 02/19/25 08:50
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 16:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 16:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/20/25 08:27*	*02/20/25 16:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/20/25 08:27*	*02/20/25 16:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 16:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:38	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 305 (4')

Lab Sample ID: 890-7692-23
Matrix: Solid
Date Collected: 02/19/25 08:50
Date Received: 02/19/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:38	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:20	02/20/25 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:38*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3280		49.7		mg/Kg			02/20/25 17:38	5

Client Sample ID: BH - 306 (4')

Lab Sample ID: 890-7692-24
Matrix: Solid
Date Collected: 02/19/25 08:55
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 17:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 17:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 17:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 08:27	02/20/25 17:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 08:27	02/20/25 17:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/20/25 08:27*	*02/20/25 17:12*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/20/25 08:27*	*02/20/25 17:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:53	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*02/18/25 11:20*	*02/20/25 16:53*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*02/18/25 11:20*	*02/20/25 16:53*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 306 (4')

Lab Sample ID: 890-7692-24
Matrix: Solid
Date Collected: 02/19/25 08:55
Date Received: 02/19/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		49.6		mg/Kg			02/20/25 17:45	5

Client Sample ID: BH - 307 (4')

Lab Sample ID: 890-7692-25
Matrix: Solid
Date Collected: 02/19/25 09:00
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 17:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 17:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/20/25 08:27*	*02/20/25 17:33*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/20/25 08:27*	*02/20/25 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 17:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/25 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 17:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 17:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 17:07	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:07*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		10.0		mg/Kg			02/20/25 17:51	1

Client Sample ID: BH - 308 (4')

Lab Sample ID: 890-7692-26
Matrix: Solid
Date Collected: 02/19/25 09:05
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:54	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 308 (4')

Lab Sample ID: 890-7692-26
Date Collected: 02/19/25 09:05
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 08:27	02/20/25 17:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 08:27	02/20/25 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/20/25 08:27*	*02/20/25 17:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 08:27*	*02/20/25 17:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/25 17:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 17:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:20	02/20/25 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:22*	*1*
o-Terphenyl	*73*		*70 - 130*	*02/18/25 11:20*	*02/20/25 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1060**		9.94		mg/Kg			02/20/25 18:09	1

Client Sample ID: BH - 309 (4')

Lab Sample ID: 890-7692-27
Date Collected: 02/19/25 09:10
Matrix: Solid
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 08:27	02/20/25 18:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 08:27	02/20/25 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/20/25 08:27*	*02/20/25 18:14*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/20/25 08:27*	*02/20/25 18:14*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 309 (4')

Lab Sample ID: 890-7692-27
Matrix: Solid
Date Collected: 02/19/25 09:10
Date Received: 02/19/25 15:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 18:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 13:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		02/18/25 11:21	02/20/25 13:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:21	02/20/25 13:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:21	02/20/25 13:45	1
Total TPH	<49.9	U F1	49.9		mg/Kg		02/18/25 11:21	02/20/25 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*02/18/25 11:21*	*02/20/25 13:45*	*1*
o-Terphenyl	*83*		*70 - 130*	*02/18/25 11:21*	*02/20/25 13:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2120**		50.1		mg/Kg			02/20/25 18:15	5

Client Sample ID: BH - 310 (4')

Lab Sample ID: 890-7692-28
Matrix: Solid
Date Collected: 02/19/25 09:15
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:27	02/20/25 18:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:27	02/20/25 18:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:27	02/20/25 18:34	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/20/25 08:27	02/20/25 18:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/20/25 08:27	02/20/25 18:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/25 08:27	02/20/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/20/25 08:27*	*02/20/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/20/25 08:27*	*02/20/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/20/25 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 14:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:32	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 310 (4')

Lab Sample ID: 890-7692-28
Matrix: Solid
Date Collected: 02/19/25 09:15
Date Received: 02/19/25 15:01

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:32	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*02/18/25 11:21*	*02/20/25 14:32*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/18/25 11:21*	*02/20/25 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.2**		10.1		mg/Kg			02/20/25 18:21	1

Client Sample ID: BH - 311 (4')

Lab Sample ID: 890-7692-29
Matrix: Solid
Date Collected: 02/19/25 09:20
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 08:27	02/20/25 18:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 08:27	02/20/25 18:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/20/25 08:27*	*02/20/25 18:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/20/25 08:27*	*02/20/25 18:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/25 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 14:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:48	1
Total TPH	<49.8	U	49.8		mg/Kg		02/18/25 11:21	02/20/25 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*02/18/25 11:21*	*02/20/25 14:48*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/18/25 11:21*	*02/20/25 14:48*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 311 (4')

Lab Sample ID: 890-7692-29
Matrix: Solid
Date Collected: 02/19/25 09:20
Date Received: 02/19/25 15:01

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		101		mg/Kg			02/20/25 18:27	10

Client Sample ID: SW - 107

Lab Sample ID: 890-7692-30
Matrix: Solid
Date Collected: 02/19/25 09:25
Date Received: 02/19/25 15:01

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 19:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/25 08:27	02/20/25 19:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/25 08:27	02/20/25 19:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/20/25 08:27*	*02/20/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/20/25 08:27*	*02/20/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/20/25 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/25 15:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/25 11:21	02/20/25 15:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/18/25 11:21	02/20/25 15:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/25 11:21	02/20/25 15:04	1
Total TPH	<49.9	U	49.9		mg/Kg		02/18/25 11:21	02/20/25 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/18/25 11:21*	*02/20/25 15:04*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/18/25 11:21*	*02/20/25 15:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.9		9.98		mg/Kg			02/20/25 18:33	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7692-1	BH - 283 (4')	106	104
890-7692-1 MS	BH - 283 (4')	98	108
890-7692-1 MSD	BH - 283 (4')	104	103
890-7692-2	BH - 284 (4')	99	97
890-7692-3	BH - 285 (4')	99	99
890-7692-4	BH - 286 (4')	98	96
890-7692-5	BH - 287 (4')	100	101
890-7692-6	BH - 288 (4')	97	97
890-7692-7	BH - 289 (4')	100	102
890-7692-8	BH - 290 (4')	100	95
890-7692-9	BH - 291 (4')	99	96
890-7692-10	BH - 292 (4')	99	98
890-7692-11	BH - 293 (4')	98	82
890-7692-11 MS	BH - 293 (4')	105	94
890-7692-11 MSD	BH - 293 (4')	100	104
890-7692-12	BH - 294 (4')	95	84
890-7692-13	BH - 295 (4')	118	86
890-7692-14	BH - 296 (4')	101	84
890-7692-15	BH - 297 (4')	99	85
890-7692-16	BH - 298 (4')	97	81
890-7692-17	BH - 299 (4')	96	91
890-7692-18	BH - 300 (4')	108	96
890-7692-19	BH - 301 (4')	98	91
890-7692-20	BH - 302 (4')	104	91
890-7692-21	BH - 303 (4')	118	101
890-7692-21 MS	BH - 303 (4')	102	100
890-7692-21 MSD	BH - 303 (4')	99	101
890-7692-22	BH - 304 (4')	100	96
890-7692-23	BH - 305 (4')	103	101
890-7692-24	BH - 306 (4')	98	107
890-7692-25	BH - 307 (4')	100	102
890-7692-26	BH - 308 (4')	95	99
890-7692-27	BH - 309 (4')	110	98
890-7692-28	BH - 310 (4')	99	96
890-7692-29	BH - 311 (4')	101	98
890-7692-30	SW - 107	110	96
LCS 880-103256/1-A	Lab Control Sample	98	102
LCS 880-103257/1-A	Lab Control Sample	111	103
LCS 880-103258/1-A	Lab Control Sample	101	100
LCSD 880-103256/2-A	Lab Control Sample Dup	101	112
LCSD 880-103257/2-A	Lab Control Sample Dup	105	92
LCSD 880-103258/2-A	Lab Control Sample Dup	91	99
MB 880-103256/5-A	Method Blank	106	93
MB 880-103257/5-A	Method Blank	82	95
MB 880-103258/5-A	Method Blank	87	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-54699-A-1-E MS	Matrix Spike	94	88								
880-54699-A-1-F MSD	Matrix Spike Duplicate	94	87								
880-54699-A-29-C MS	Matrix Spike	97	82								
880-54699-A-29-D MSD	Matrix Spike Duplicate	92	82								
890-7692-1	BH - 283 (4')	93	87								
890-7692-2	BH - 284 (4')	86	79								
890-7692-3	BH - 285 (4')	91	83								
890-7692-4	BH - 286 (4')	92	84								
890-7692-5	BH - 287 (4')	105	96								
890-7692-6	BH - 288 (4')	98	90								
890-7692-7	BH - 289 (4')	84	74								
890-7692-8	BH - 290 (4')	95	88								
890-7692-9	BH - 291 (4')	96	87								
890-7692-10	BH - 292 (4')	97	88								
890-7692-11	BH - 293 (4')	88	81								
890-7692-12	BH - 294 (4')	90	82								
890-7692-13	BH - 295 (4')	91	81								
890-7692-14	BH - 296 (4')	83	74								
890-7692-15	BH - 297 (4')	86	77								
890-7692-16	BH - 298 (4')	75	67 S1-								
890-7692-17	BH - 299 (4')	81	73								
890-7692-18	BH - 300 (4')	84	75								
890-7692-19	BH - 301 (4')	83	75								
890-7692-20	BH - 302 (4')	79	71								
890-7692-21	BH - 303 (4')	83	73								
890-7692-22	BH - 304 (4')	90	81								
890-7692-23	BH - 305 (4')	82	73								
890-7692-24	BH - 306 (4')	76	67 S1-								
890-7692-25	BH - 307 (4')	86	77								
890-7692-26	BH - 308 (4')	82	73								
890-7692-27	BH - 309 (4')	88	83								
890-7692-27 MS	BH - 309 (4')	84	86								
890-7692-27 MSD	BH - 309 (4')	83	85								
890-7692-28	BH - 310 (4')	94	87								
890-7692-29	BH - 311 (4')	93	88								
890-7692-30	SW - 107	92	82								
LCS 880-103027/2-A	Lab Control Sample	126	111								
LCS 880-103028/2-A	Lab Control Sample	100	84								
LCS 880-103029/2-A	Lab Control Sample	87	90								
LCSD 880-103027/3-A	Lab Control Sample Dup	125	110								
LCSD 880-103028/3-A	Lab Control Sample Dup	98	83								
LCSD 880-103029/3-A	Lab Control Sample Dup	90	92								
MB 880-103027/1-A	Method Blank	93	83								
MB 880-103028/1-A	Method Blank	87	77								
MB 880-103029/1-A	Method Blank	140 S1+	131 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103256/5-A
Matrix: Solid
Analysis Batch: 103255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/25 08:23	02/20/25 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/25 08:23	02/20/25 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:23	02/20/25 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/20/25 08:23*	*02/20/25 11:31*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/20/25 08:23*	*02/20/25 11:31*	*1*

Lab Sample ID: LCS 880-103256/1-A
Matrix: Solid
Analysis Batch: 103255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09000		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08556		mg/Kg		86	70 - 130
Toluene	0.100	0.07888		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09054		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-103256/2-A
Matrix: Solid
Analysis Batch: 103255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103256

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	15	35
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	17	35
Toluene	0.100	0.09195		mg/Kg		92	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2097		mg/Kg		105	70 - 130	15	35
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 890-7692-1 MS
Matrix: Solid
Analysis Batch: 103255

Client Sample ID: BH - 283 (4')
Prep Type: Total/NA
Prep Batch: 103256

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1015		mg/Kg		102	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.09675		mg/Kg		97	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7692-1 MS — **Client Sample ID: BH - 283 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103255 — **Prep Batch: 103256**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.0998	0.08911		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1990		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09870		mg/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-7692-1 MSD — **Client Sample ID: BH - 283 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103255 — **Prep Batch: 103256**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09290		mg/Kg		93	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0996	0.08991		mg/Kg		90	70 - 130	7	35
Toluene	<0.00200	U	0.0996	0.08206		mg/Kg		82	70 - 130	8	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1845		mg/Kg		93	70 - 130	8	35
o-Xylene	<0.00200	U	0.0996	0.09138		mg/Kg		92	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-103257/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103130 — **Prep Batch: 103257**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/25 08:25	02/20/25 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/25 08:25	02/20/25 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:25	02/20/25 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*02/20/25 08:25*	*02/20/25 11:26*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/20/25 08:25*	*02/20/25 11:26*	*1*

Lab Sample ID: LCS 880-103257/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103130 — **Prep Batch: 103257**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08194		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.07720		mg/Kg		77	70 - 130
Toluene	0.100	0.07072		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	0.200	0.1819		mg/Kg		91	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-103257/1-A
Matrix: Solid
Analysis Batch: 103130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103257

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09042		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-103257/2-A
Matrix: Solid
Analysis Batch: 103130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103257

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08016		mg/Kg		80	70 - 130	2	35
Ethylbenzene			0.100	0.08405		mg/Kg		84	70 - 130	9	35
Toluene			0.100	0.07375		mg/Kg		74	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1699		mg/Kg		85	70 - 130	7	35
o-Xylene			0.100	0.08535		mg/Kg		85	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-7692-11 MS
Matrix: Solid
Analysis Batch: 103130

Client Sample ID: BH - 293 (4')
Prep Type: Total/NA
Prep Batch: 103257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.08890		mg/Kg		89	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.08985		mg/Kg		90	70 - 130		
Toluene	<0.00200	U	0.0998	0.07523		mg/Kg		75	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1849		mg/Kg		93	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.09130		mg/Kg		91	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-7692-11 MSD
Matrix: Solid
Analysis Batch: 103130

Client Sample ID: BH - 293 (4')
Prep Type: Total/NA
Prep Batch: 103257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.09317		mg/Kg		94	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0996	0.08682		mg/Kg		87	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.08206		mg/Kg		82	70 - 130	9	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1804		mg/Kg		91	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.08867		mg/Kg		89	70 - 130	3	35

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7692-11 MSD
Matrix: Solid
Analysis Batch: 103130

Client Sample ID: BH - 293 (4')
Prep Type: Total/NA
Prep Batch: 103257

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-103258/5-A
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/20/25 08:27	02/20/25 11:31	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/20/25 08:27	02/20/25 11:31	1

Lab Sample ID: LCS 880-103258/1-A
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103258

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1028		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1059		mg/Kg		106	70 - 130		
Toluene			0.100	0.1063		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.1983		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.1102		mg/Kg		110	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-103258/2-A
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103258

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1054		mg/Kg		105	70 - 130	3	35
Ethylbenzene			0.100	0.1056		mg/Kg		106	70 - 130	0	35
Toluene			0.100	0.1056		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1961		mg/Kg		98	70 - 130	1	35
o-Xylene			0.100	0.1101		mg/Kg		110	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-103258/2-A
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103258

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7692-21 MS
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: BH - 303 (4')
Prep Type: Total/NA
Prep Batch: 103258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1054		mg/Kg		106	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1042		mg/Kg		104	70 - 130
Toluene	<0.00200	U	0.0998	0.1041		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1929		mg/Kg		97	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1072		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7692-21 MSD
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: BH - 303 (4')
Prep Type: Total/NA
Prep Batch: 103258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1088		mg/Kg		109	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1042		mg/Kg		105	70 - 130	0	35
Toluene	<0.00200	U	0.0996	0.1055		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1890		mg/Kg		95	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.1053		mg/Kg		106	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-103027/1-A
Matrix: Solid
Analysis Batch: 103288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	02/18/25 11:20	02/20/25 06:38	1

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-103027/1-A
Matrix: Solid
Analysis Batch: 103288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103027

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		70 - 130	02/18/25 11:20	02/20/25 06:38	1

Lab Sample ID: LCS 880-103027/2-A
Matrix: Solid
Analysis Batch: 103288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103027

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1167		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1071		mg/Kg		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-103027/3-A
Matrix: Solid
Analysis Batch: 103288

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103027

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1146		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1089		mg/Kg		109	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-54699-A-1-E MS
Matrix: Solid
Analysis Batch: 103288

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103027

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	844.1		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	770.5		mg/Kg		75	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-54699-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103288 — **Prep Batch: 103027**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	832.3		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	765.5		mg/Kg		74	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: MB 880-103028/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103290 — **Prep Batch: 103028**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:20	02/20/25 06:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*02/18/25 11:20*	*02/20/25 06:38*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/18/25 11:20*	*02/20/25 06:38*	*1*

Lab Sample ID: LCS 880-103028/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103290 — **Prep Batch: 103028**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	940.0		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	883.7		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: LCSD 880-103028/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103290 — **Prep Batch: 103028**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	849.8		mg/Kg		85	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	901.0		mg/Kg		90	70 - 130	2	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-103028/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103290 — **Prep Batch: 103028**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-54699-A-29-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103290 — **Prep Batch: 103028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	994	747.7		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U F1	994	712.2	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-54699-A-29-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103290 — **Prep Batch: 103028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	994	728.2		mg/Kg		73	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.7	U F1	994	729.4		mg/Kg		71	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: MB 880-103029/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	02/18/25 11:21	02/20/25 01:43	1
o-Terphenyl	131	S1+	70 - 130	02/18/25 11:21	02/20/25 01:43	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-103029/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	793.8		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	814.9		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-103029/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.5		mg/Kg		84	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	847.5		mg/Kg		85	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-7692-27 MS — **Client Sample ID: BH - 309 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	691.2	F1	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	734.7		mg/Kg		74	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 890-7692-27 MSD — **Client Sample ID: BH - 309 (4')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	640.7	F1	mg/Kg		64	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	697.6		mg/Kg		70	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-7692-27 MSD
Matrix: Solid
Analysis Batch: 103292

Client Sample ID: BH - 309 (4')
Prep Type: Total/NA
Prep Batch: 103029

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103265/1-A
Matrix: Solid
Analysis Batch: 103279

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/20/25 15:16	1

Lab Sample ID: LCS 880-103265/2-A
Matrix: Solid
Analysis Batch: 103279

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-103265/3-A
Matrix: Solid
Analysis Batch: 103279

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-7692-1 MS
Matrix: Solid
Analysis Batch: 103279

Client Sample ID: BH - 283 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2040		1240	3356		mg/Kg		106	90 - 110		

Lab Sample ID: 890-7692-1 MSD
Matrix: Solid
Analysis Batch: 103279

Client Sample ID: BH - 283 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2040		1240	3361		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-7692-11 MS
Matrix: Solid
Analysis Batch: 103279

Client Sample ID: BH - 293 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5390		1250	6768	4	mg/Kg		110	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7692-11 MSD — **Client Sample ID: BH - 293 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5390		1250	6768	4	mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-103283/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/20/25 16:56	1

Lab Sample ID: LCS 880-103283/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-103283/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103285

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-7692-21 MS — **Client Sample ID: BH - 303 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1990		1240	3343		mg/Kg		109	90 - 110

Lab Sample ID: 890-7692-21 MSD — **Client Sample ID: BH - 303 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 103285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1990		1240	3356		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

GC VOA

Analysis Batch: 103130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-11	BH - 293 (4')	Total/NA	Solid	8021B	103257
890-7692-12	BH - 294 (4')	Total/NA	Solid	8021B	103257
890-7692-13	BH - 295 (4')	Total/NA	Solid	8021B	103257
890-7692-14	BH - 296 (4')	Total/NA	Solid	8021B	103257
890-7692-15	BH - 297 (4')	Total/NA	Solid	8021B	103257
890-7692-16	BH - 298 (4')	Total/NA	Solid	8021B	103257
890-7692-17	BH - 299 (4')	Total/NA	Solid	8021B	103257
890-7692-18	BH - 300 (4')	Total/NA	Solid	8021B	103257
890-7692-19	BH - 301 (4')	Total/NA	Solid	8021B	103257
890-7692-20	BH - 302 (4')	Total/NA	Solid	8021B	103257
MB 880-103257/5-A	Method Blank	Total/NA	Solid	8021B	103257
LCS 880-103257/1-A	Lab Control Sample	Total/NA	Solid	8021B	103257
LCSD 880-103257/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103257
890-7692-11 MS	BH - 293 (4')	Total/NA	Solid	8021B	103257
890-7692-11 MSD	BH - 293 (4')	Total/NA	Solid	8021B	103257

Analysis Batch: 103254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-21	BH - 303 (4')	Total/NA	Solid	8021B	103258
890-7692-22	BH - 304 (4')	Total/NA	Solid	8021B	103258
890-7692-23	BH - 305 (4')	Total/NA	Solid	8021B	103258
890-7692-24	BH - 306 (4')	Total/NA	Solid	8021B	103258
890-7692-25	BH - 307 (4')	Total/NA	Solid	8021B	103258
890-7692-26	BH - 308 (4')	Total/NA	Solid	8021B	103258
890-7692-27	BH - 309 (4')	Total/NA	Solid	8021B	103258
890-7692-28	BH - 310 (4')	Total/NA	Solid	8021B	103258
890-7692-29	BH - 311 (4')	Total/NA	Solid	8021B	103258
890-7692-30	SW - 107	Total/NA	Solid	8021B	103258
MB 880-103258/5-A	Method Blank	Total/NA	Solid	8021B	103258
LCS 880-103258/1-A	Lab Control Sample	Total/NA	Solid	8021B	103258
LCSD 880-103258/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103258
890-7692-21 MS	BH - 303 (4')	Total/NA	Solid	8021B	103258
890-7692-21 MSD	BH - 303 (4')	Total/NA	Solid	8021B	103258

Analysis Batch: 103255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Total/NA	Solid	8021B	103256
890-7692-2	BH - 284 (4')	Total/NA	Solid	8021B	103256
890-7692-3	BH - 285 (4')	Total/NA	Solid	8021B	103256
890-7692-4	BH - 286 (4')	Total/NA	Solid	8021B	103256
890-7692-5	BH - 287 (4')	Total/NA	Solid	8021B	103256
890-7692-6	BH - 288 (4')	Total/NA	Solid	8021B	103256
890-7692-7	BH - 289 (4')	Total/NA	Solid	8021B	103256
890-7692-8	BH - 290 (4')	Total/NA	Solid	8021B	103256
890-7692-9	BH - 291 (4')	Total/NA	Solid	8021B	103256
890-7692-10	BH - 292 (4')	Total/NA	Solid	8021B	103256
MB 880-103256/5-A	Method Blank	Total/NA	Solid	8021B	103256
LCS 880-103256/1-A	Lab Control Sample	Total/NA	Solid	8021B	103256
LCSD 880-103256/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103256
890-7692-1 MS	BH - 283 (4')	Total/NA	Solid	8021B	103256
890-7692-1 MSD	BH - 283 (4')	Total/NA	Solid	8021B	103256

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

GC VOA

Prep Batch: 103256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Total/NA	Solid	5035	
890-7692-2	BH - 284 (4')	Total/NA	Solid	5035	
890-7692-3	BH - 285 (4')	Total/NA	Solid	5035	
890-7692-4	BH - 286 (4')	Total/NA	Solid	5035	
890-7692-5	BH - 287 (4')	Total/NA	Solid	5035	
890-7692-6	BH - 288 (4')	Total/NA	Solid	5035	
890-7692-7	BH - 289 (4')	Total/NA	Solid	5035	
890-7692-8	BH - 290 (4')	Total/NA	Solid	5035	
890-7692-9	BH - 291 (4')	Total/NA	Solid	5035	
890-7692-10	BH - 292 (4')	Total/NA	Solid	5035	
MB 880-103256/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103256/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103256/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7692-1 MS	BH - 283 (4')	Total/NA	Solid	5035	
890-7692-1 MSD	BH - 283 (4')	Total/NA	Solid	5035	

Prep Batch: 103257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-11	BH - 293 (4')	Total/NA	Solid	5035	
890-7692-12	BH - 294 (4')	Total/NA	Solid	5035	
890-7692-13	BH - 295 (4')	Total/NA	Solid	5035	
890-7692-14	BH - 296 (4')	Total/NA	Solid	5035	
890-7692-15	BH - 297 (4')	Total/NA	Solid	5035	
890-7692-16	BH - 298 (4')	Total/NA	Solid	5035	
890-7692-17	BH - 299 (4')	Total/NA	Solid	5035	
890-7692-18	BH - 300 (4')	Total/NA	Solid	5035	
890-7692-19	BH - 301 (4')	Total/NA	Solid	5035	
890-7692-20	BH - 302 (4')	Total/NA	Solid	5035	
MB 880-103257/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103257/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103257/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7692-11 MS	BH - 293 (4')	Total/NA	Solid	5035	
890-7692-11 MSD	BH - 293 (4')	Total/NA	Solid	5035	

Prep Batch: 103258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-21	BH - 303 (4')	Total/NA	Solid	5035	
890-7692-22	BH - 304 (4')	Total/NA	Solid	5035	
890-7692-23	BH - 305 (4')	Total/NA	Solid	5035	
890-7692-24	BH - 306 (4')	Total/NA	Solid	5035	
890-7692-25	BH - 307 (4')	Total/NA	Solid	5035	
890-7692-26	BH - 308 (4')	Total/NA	Solid	5035	
890-7692-27	BH - 309 (4')	Total/NA	Solid	5035	
890-7692-28	BH - 310 (4')	Total/NA	Solid	5035	
890-7692-29	BH - 311 (4')	Total/NA	Solid	5035	
890-7692-30	SW - 107	Total/NA	Solid	5035	
MB 880-103258/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103258/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103258/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7692-21 MS	BH - 303 (4')	Total/NA	Solid	5035	
890-7692-21 MSD	BH - 303 (4')	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

GC VOA

Analysis Batch: 103314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Total/NA	Solid	Total BTEX	
890-7692-2	BH - 284 (4')	Total/NA	Solid	Total BTEX	
890-7692-3	BH - 285 (4')	Total/NA	Solid	Total BTEX	
890-7692-4	BH - 286 (4')	Total/NA	Solid	Total BTEX	
890-7692-5	BH - 287 (4')	Total/NA	Solid	Total BTEX	
890-7692-6	BH - 288 (4')	Total/NA	Solid	Total BTEX	
890-7692-7	BH - 289 (4')	Total/NA	Solid	Total BTEX	
890-7692-8	BH - 290 (4')	Total/NA	Solid	Total BTEX	
890-7692-9	BH - 291 (4')	Total/NA	Solid	Total BTEX	
890-7692-10	BH - 292 (4')	Total/NA	Solid	Total BTEX	
890-7692-11	BH - 293 (4')	Total/NA	Solid	Total BTEX	
890-7692-12	BH - 294 (4')	Total/NA	Solid	Total BTEX	
890-7692-13	BH - 295 (4')	Total/NA	Solid	Total BTEX	
890-7692-14	BH - 296 (4')	Total/NA	Solid	Total BTEX	
890-7692-15	BH - 297 (4')	Total/NA	Solid	Total BTEX	
890-7692-16	BH - 298 (4')	Total/NA	Solid	Total BTEX	
890-7692-17	BH - 299 (4')	Total/NA	Solid	Total BTEX	
890-7692-18	BH - 300 (4')	Total/NA	Solid	Total BTEX	
890-7692-19	BH - 301 (4')	Total/NA	Solid	Total BTEX	
890-7692-20	BH - 302 (4')	Total/NA	Solid	Total BTEX	
890-7692-21	BH - 303 (4')	Total/NA	Solid	Total BTEX	
890-7692-22	BH - 304 (4')	Total/NA	Solid	Total BTEX	
890-7692-23	BH - 305 (4')	Total/NA	Solid	Total BTEX	
890-7692-24	BH - 306 (4')	Total/NA	Solid	Total BTEX	
890-7692-25	BH - 307 (4')	Total/NA	Solid	Total BTEX	
890-7692-26	BH - 308 (4')	Total/NA	Solid	Total BTEX	
890-7692-27	BH - 309 (4')	Total/NA	Solid	Total BTEX	
890-7692-28	BH - 310 (4')	Total/NA	Solid	Total BTEX	
890-7692-29	BH - 311 (4')	Total/NA	Solid	Total BTEX	
890-7692-30	SW - 107	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Total/NA	Solid	8015NM Prep	
890-7692-2	BH - 284 (4')	Total/NA	Solid	8015NM Prep	
890-7692-3	BH - 285 (4')	Total/NA	Solid	8015NM Prep	
890-7692-4	BH - 286 (4')	Total/NA	Solid	8015NM Prep	
890-7692-5	BH - 287 (4')	Total/NA	Solid	8015NM Prep	
890-7692-6	BH - 288 (4')	Total/NA	Solid	8015NM Prep	
890-7692-7	BH - 289 (4')	Total/NA	Solid	8015NM Prep	
890-7692-8	BH - 290 (4')	Total/NA	Solid	8015NM Prep	
890-7692-9	BH - 291 (4')	Total/NA	Solid	8015NM Prep	
890-7692-10	BH - 292 (4')	Total/NA	Solid	8015NM Prep	
890-7692-11	BH - 293 (4')	Total/NA	Solid	8015NM Prep	
890-7692-12	BH - 294 (4')	Total/NA	Solid	8015NM Prep	
890-7692-13	BH - 295 (4')	Total/NA	Solid	8015NM Prep	
MB 880-103027/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103027/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

GC Semi VOA (Continued)

Prep Batch: 103027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54699-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54699-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 103028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-14	BH - 296 (4')	Total/NA	Solid	8015NM Prep	
890-7692-15	BH - 297 (4')	Total/NA	Solid	8015NM Prep	
890-7692-16	BH - 298 (4')	Total/NA	Solid	8015NM Prep	
890-7692-17	BH - 299 (4')	Total/NA	Solid	8015NM Prep	
890-7692-18	BH - 300 (4')	Total/NA	Solid	8015NM Prep	
890-7692-19	BH - 301 (4')	Total/NA	Solid	8015NM Prep	
890-7692-20	BH - 302 (4')	Total/NA	Solid	8015NM Prep	
890-7692-21	BH - 303 (4')	Total/NA	Solid	8015NM Prep	
890-7692-22	BH - 304 (4')	Total/NA	Solid	8015NM Prep	
890-7692-23	BH - 305 (4')	Total/NA	Solid	8015NM Prep	
890-7692-24	BH - 306 (4')	Total/NA	Solid	8015NM Prep	
890-7692-25	BH - 307 (4')	Total/NA	Solid	8015NM Prep	
890-7692-26	BH - 308 (4')	Total/NA	Solid	8015NM Prep	
MB 880-103028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54699-A-29-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54699-A-29-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 103029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-27	BH - 309 (4')	Total/NA	Solid	8015NM Prep	
890-7692-28	BH - 310 (4')	Total/NA	Solid	8015NM Prep	
890-7692-29	BH - 311 (4')	Total/NA	Solid	8015NM Prep	
890-7692-30	SW - 107	Total/NA	Solid	8015NM Prep	
MB 880-103029/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103029/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7692-27 MS	BH - 309 (4')	Total/NA	Solid	8015NM Prep	
890-7692-27 MSD	BH - 309 (4')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Total/NA	Solid	8015B NM	103027
890-7692-2	BH - 284 (4')	Total/NA	Solid	8015B NM	103027
890-7692-3	BH - 285 (4')	Total/NA	Solid	8015B NM	103027
890-7692-4	BH - 286 (4')	Total/NA	Solid	8015B NM	103027
890-7692-5	BH - 287 (4')	Total/NA	Solid	8015B NM	103027
890-7692-6	BH - 288 (4')	Total/NA	Solid	8015B NM	103027
890-7692-7	BH - 289 (4')	Total/NA	Solid	8015B NM	103027
890-7692-8	BH - 290 (4')	Total/NA	Solid	8015B NM	103027
890-7692-9	BH - 291 (4')	Total/NA	Solid	8015B NM	103027
890-7692-10	BH - 292 (4')	Total/NA	Solid	8015B NM	103027
890-7692-11	BH - 293 (4')	Total/NA	Solid	8015B NM	103027
890-7692-12	BH - 294 (4')	Total/NA	Solid	8015B NM	103027
890-7692-13	BH - 295 (4')	Total/NA	Solid	8015B NM	103027

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

GC Semi VOA (Continued)

Analysis Batch: 103288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-103027/1-A	Method Blank	Total/NA	Solid	8015B NM	103027
LCS 880-103027/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103027
LCSD 880-103027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103027
880-54699-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	103027
880-54699-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	103027

Analysis Batch: 103290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-14	BH - 296 (4')	Total/NA	Solid	8015B NM	103028
890-7692-15	BH - 297 (4')	Total/NA	Solid	8015B NM	103028
890-7692-16	BH - 298 (4')	Total/NA	Solid	8015B NM	103028
890-7692-17	BH - 299 (4')	Total/NA	Solid	8015B NM	103028
890-7692-18	BH - 300 (4')	Total/NA	Solid	8015B NM	103028
890-7692-19	BH - 301 (4')	Total/NA	Solid	8015B NM	103028
890-7692-20	BH - 302 (4')	Total/NA	Solid	8015B NM	103028
890-7692-21	BH - 303 (4')	Total/NA	Solid	8015B NM	103028
890-7692-22	BH - 304 (4')	Total/NA	Solid	8015B NM	103028
890-7692-23	BH - 305 (4')	Total/NA	Solid	8015B NM	103028
890-7692-24	BH - 306 (4')	Total/NA	Solid	8015B NM	103028
890-7692-25	BH - 307 (4')	Total/NA	Solid	8015B NM	103028
890-7692-26	BH - 308 (4')	Total/NA	Solid	8015B NM	103028
MB 880-103028/1-A	Method Blank	Total/NA	Solid	8015B NM	103028
LCS 880-103028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103028
LCSD 880-103028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103028
880-54699-A-29-C MS	Matrix Spike	Total/NA	Solid	8015B NM	103028
880-54699-A-29-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	103028

Analysis Batch: 103292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-27	BH - 309 (4')	Total/NA	Solid	8015B NM	103029
890-7692-28	BH - 310 (4')	Total/NA	Solid	8015B NM	103029
890-7692-29	BH - 311 (4')	Total/NA	Solid	8015B NM	103029
890-7692-30	SW - 107	Total/NA	Solid	8015B NM	103029
MB 880-103029/1-A	Method Blank	Total/NA	Solid	8015B NM	103029
LCS 880-103029/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103029
LCSD 880-103029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103029
890-7692-27 MS	BH - 309 (4')	Total/NA	Solid	8015B NM	103029
890-7692-27 MSD	BH - 309 (4')	Total/NA	Solid	8015B NM	103029

Analysis Batch: 103322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Total/NA	Solid	8015 NM	
890-7692-2	BH - 284 (4')	Total/NA	Solid	8015 NM	
890-7692-3	BH - 285 (4')	Total/NA	Solid	8015 NM	
890-7692-4	BH - 286 (4')	Total/NA	Solid	8015 NM	
890-7692-5	BH - 287 (4')	Total/NA	Solid	8015 NM	
890-7692-6	BH - 288 (4')	Total/NA	Solid	8015 NM	
890-7692-7	BH - 289 (4')	Total/NA	Solid	8015 NM	
890-7692-8	BH - 290 (4')	Total/NA	Solid	8015 NM	
890-7692-9	BH - 291 (4')	Total/NA	Solid	8015 NM	
890-7692-10	BH - 292 (4')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

GC Semi VOA (Continued)

Analysis Batch: 103322 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-11	BH - 293 (4')	Total/NA	Solid	8015 NM	
890-7692-12	BH - 294 (4')	Total/NA	Solid	8015 NM	
890-7692-13	BH - 295 (4')	Total/NA	Solid	8015 NM	
890-7692-14	BH - 296 (4')	Total/NA	Solid	8015 NM	
890-7692-15	BH - 297 (4')	Total/NA	Solid	8015 NM	
890-7692-16	BH - 298 (4')	Total/NA	Solid	8015 NM	
890-7692-17	BH - 299 (4')	Total/NA	Solid	8015 NM	
890-7692-18	BH - 300 (4')	Total/NA	Solid	8015 NM	
890-7692-19	BH - 301 (4')	Total/NA	Solid	8015 NM	
890-7692-20	BH - 302 (4')	Total/NA	Solid	8015 NM	
890-7692-21	BH - 303 (4')	Total/NA	Solid	8015 NM	
890-7692-22	BH - 304 (4')	Total/NA	Solid	8015 NM	
890-7692-23	BH - 305 (4')	Total/NA	Solid	8015 NM	
890-7692-24	BH - 306 (4')	Total/NA	Solid	8015 NM	
890-7692-25	BH - 307 (4')	Total/NA	Solid	8015 NM	
890-7692-26	BH - 308 (4')	Total/NA	Solid	8015 NM	
890-7692-27	BH - 309 (4')	Total/NA	Solid	8015 NM	
890-7692-28	BH - 310 (4')	Total/NA	Solid	8015 NM	
890-7692-29	BH - 311 (4')	Total/NA	Solid	8015 NM	
890-7692-30	SW - 107	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Soluble	Solid	DI Leach	
890-7692-2	BH - 284 (4')	Soluble	Solid	DI Leach	
890-7692-3	BH - 285 (4')	Soluble	Solid	DI Leach	
890-7692-4	BH - 286 (4')	Soluble	Solid	DI Leach	
890-7692-5	BH - 287 (4')	Soluble	Solid	DI Leach	
890-7692-6	BH - 288 (4')	Soluble	Solid	DI Leach	
890-7692-7	BH - 289 (4')	Soluble	Solid	DI Leach	
890-7692-8	BH - 290 (4')	Soluble	Solid	DI Leach	
890-7692-9	BH - 291 (4')	Soluble	Solid	DI Leach	
890-7692-10	BH - 292 (4')	Soluble	Solid	DI Leach	
890-7692-11	BH - 293 (4')	Soluble	Solid	DI Leach	
890-7692-12	BH - 294 (4')	Soluble	Solid	DI Leach	
890-7692-13	BH - 295 (4')	Soluble	Solid	DI Leach	
890-7692-14	BH - 296 (4')	Soluble	Solid	DI Leach	
890-7692-15	BH - 297 (4')	Soluble	Solid	DI Leach	
890-7692-16	BH - 298 (4')	Soluble	Solid	DI Leach	
890-7692-17	BH - 299 (4')	Soluble	Solid	DI Leach	
890-7692-18	BH - 300 (4')	Soluble	Solid	DI Leach	
890-7692-19	BH - 301 (4')	Soluble	Solid	DI Leach	
890-7692-20	BH - 302 (4')	Soluble	Solid	DI Leach	
MB 880-103265/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103265/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103265/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7692-1 MS	BH - 283 (4')	Soluble	Solid	DI Leach	
890-7692-1 MSD	BH - 283 (4')	Soluble	Solid	DI Leach	
890-7692-11 MS	BH - 293 (4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

HPLC/IC (Continued)

Leach Batch: 103265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-11 MSD	BH - 293 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 103279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-1	BH - 283 (4')	Soluble	Solid	300.0	103265
890-7692-2	BH - 284 (4')	Soluble	Solid	300.0	103265
890-7692-3	BH - 285 (4')	Soluble	Solid	300.0	103265
890-7692-4	BH - 286 (4')	Soluble	Solid	300.0	103265
890-7692-5	BH - 287 (4')	Soluble	Solid	300.0	103265
890-7692-6	BH - 288 (4')	Soluble	Solid	300.0	103265
890-7692-7	BH - 289 (4')	Soluble	Solid	300.0	103265
890-7692-8	BH - 290 (4')	Soluble	Solid	300.0	103265
890-7692-9	BH - 291 (4')	Soluble	Solid	300.0	103265
890-7692-10	BH - 292 (4')	Soluble	Solid	300.0	103265
890-7692-11	BH - 293 (4')	Soluble	Solid	300.0	103265
890-7692-12	BH - 294 (4')	Soluble	Solid	300.0	103265
890-7692-13	BH - 295 (4')	Soluble	Solid	300.0	103265
890-7692-14	BH - 296 (4')	Soluble	Solid	300.0	103265
890-7692-15	BH - 297 (4')	Soluble	Solid	300.0	103265
890-7692-16	BH - 298 (4')	Soluble	Solid	300.0	103265
890-7692-17	BH - 299 (4')	Soluble	Solid	300.0	103265
890-7692-18	BH - 300 (4')	Soluble	Solid	300.0	103265
890-7692-19	BH - 301 (4')	Soluble	Solid	300.0	103265
890-7692-20	BH - 302 (4')	Soluble	Solid	300.0	103265
MB 880-103265/1-A	Method Blank	Soluble	Solid	300.0	103265
LCS 880-103265/2-A	Lab Control Sample	Soluble	Solid	300.0	103265
LCSD 880-103265/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103265
890-7692-1 MS	BH - 283 (4')	Soluble	Solid	300.0	103265
890-7692-1 MSD	BH - 283 (4')	Soluble	Solid	300.0	103265
890-7692-11 MS	BH - 293 (4')	Soluble	Solid	300.0	103265
890-7692-11 MSD	BH - 293 (4')	Soluble	Solid	300.0	103265

Leach Batch: 103283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-21	BH - 303 (4')	Soluble	Solid	DI Leach	
890-7692-22	BH - 304 (4')	Soluble	Solid	DI Leach	
890-7692-23	BH - 305 (4')	Soluble	Solid	DI Leach	
890-7692-24	BH - 306 (4')	Soluble	Solid	DI Leach	
890-7692-25	BH - 307 (4')	Soluble	Solid	DI Leach	
890-7692-26	BH - 308 (4')	Soluble	Solid	DI Leach	
890-7692-27	BH - 309 (4')	Soluble	Solid	DI Leach	
890-7692-28	BH - 310 (4')	Soluble	Solid	DI Leach	
890-7692-29	BH - 311 (4')	Soluble	Solid	DI Leach	
890-7692-30	SW - 107	Soluble	Solid	DI Leach	
MB 880-103283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7692-21 MS	BH - 303 (4')	Soluble	Solid	DI Leach	
890-7692-21 MSD	BH - 303 (4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

HPLC/IC

Analysis Batch: 103285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7692-21	BH - 303 (4')	Soluble	Solid	300.0	103283
890-7692-22	BH - 304 (4')	Soluble	Solid	300.0	103283
890-7692-23	BH - 305 (4')	Soluble	Solid	300.0	103283
890-7692-24	BH - 306 (4')	Soluble	Solid	300.0	103283
890-7692-25	BH - 307 (4')	Soluble	Solid	300.0	103283
890-7692-26	BH - 308 (4')	Soluble	Solid	300.0	103283
890-7692-27	BH - 309 (4')	Soluble	Solid	300.0	103283
890-7692-28	BH - 310 (4')	Soluble	Solid	300.0	103283
890-7692-29	BH - 311 (4')	Soluble	Solid	300.0	103283
890-7692-30	SW - 107	Soluble	Solid	300.0	103283
MB 880-103283/1-A	Method Blank	Soluble	Solid	300.0	103283
LCS 880-103283/2-A	Lab Control Sample	Soluble	Solid	300.0	103283
LCSD 880-103283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103283
890-7692-21 MS	BH - 303 (4')	Soluble	Solid	300.0	103283
890-7692-21 MSD	BH - 303 (4')	Soluble	Solid	300.0	103283

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 283 (4')

Lab Sample ID: 890-7692-1
Matrix: Solid
Date Collected: 02/19/25 07:00
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103256	02/20/25 08:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 11:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 11:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 14:06	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 15:33	CH	EET MID

Client Sample ID: BH - 284 (4')

Lab Sample ID: 890-7692-2
Matrix: Solid
Date Collected: 02/19/25 07:05
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103256	02/20/25 08:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 16:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 14:22	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103279	02/20/25 15:50	CH	EET MID

Client Sample ID: BH - 285 (4')

Lab Sample ID: 890-7692-3
Matrix: Solid
Date Collected: 02/19/25 07:10
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103256	02/20/25 08:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 16:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 14:36	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103279	02/20/25 15:56	CH	EET MID

Client Sample ID: BH - 286 (4')

Lab Sample ID: 890-7692-4
Matrix: Solid
Date Collected: 02/19/25 07:15
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103256	02/20/25 08:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:12	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 286 (4')

Lab Sample ID: 890-7692-4
Matrix: Solid
Date Collected: 02/19/25 07:15
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 15:07	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103279	02/20/25 16:01	CH	EET MID

Client Sample ID: BH - 287 (4')

Lab Sample ID: 890-7692-5
Matrix: Solid
Date Collected: 02/19/25 07:20
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103256	02/20/25 08:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 15:23	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 16:07	CH	EET MID

Client Sample ID: BH - 288 (4')

Lab Sample ID: 890-7692-6
Matrix: Solid
Date Collected: 02/19/25 07:25
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103256	02/20/25 08:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 15:37	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 16:24	CH	EET MID

Client Sample ID: BH - 289 (4')

Lab Sample ID: 890-7692-7
Matrix: Solid
Date Collected: 02/19/25 07:30
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103256	02/20/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 15:53	TKC	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 289 (4')

Lab Sample ID: 890-7692-7
Date Collected: 02/19/25 07:30
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 16:29	CH	EET MID

Client Sample ID: BH - 290 (4')

Lab Sample ID: 890-7692-8
Date Collected: 02/19/25 07:35
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103256	02/20/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 16:07	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 16:35	CH	EET MID

Client Sample ID: BH - 291 (4')

Lab Sample ID: 890-7692-9
Date Collected: 02/19/25 07:40
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103256	02/20/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 16:24	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 16:41	CH	EET MID

Client Sample ID: BH - 292 (4')

Lab Sample ID: 890-7692-10
Date Collected: 02/19/25 07:45
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	103256	02/20/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103255	02/20/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 16:38	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103279	02/20/25 16:47	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 293 (4')

Lab Sample ID: 890-7692-11

Date Collected: 02/19/25 07:50
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 11:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 16:53	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 16:52	CH	EET MID

Client Sample ID: BH - 294 (4')

Lab Sample ID: 890-7692-12

Date Collected: 02/19/25 07:55
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 16:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 17:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 17:07	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103279	02/20/25 17:09	CH	EET MID

Client Sample ID: BH - 295 (4')

Lab Sample ID: 890-7692-13

Date Collected: 02/19/25 08:00
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 16:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 16:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 17:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103027	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103288	02/20/25 17:22	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103279	02/20/25 17:15	CH	EET MID

Client Sample ID: BH - 296 (4')

Lab Sample ID: 890-7692-14

Date Collected: 02/19/25 08:05
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 16:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 16:57	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 296 (4')

Lab Sample ID: 890-7692-14
Date Collected: 02/19/25 08:05
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 14:06	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 17:32	CH	EET MID

Client Sample ID: BH - 297 (4')

Lab Sample ID: 890-7692-15
Date Collected: 02/19/25 08:10
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 17:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 14:22	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 17:38	CH	EET MID

Client Sample ID: BH - 298 (4')

Lab Sample ID: 890-7692-16
Date Collected: 02/19/25 08:15
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 14:36	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 17:43	CH	EET MID

Client Sample ID: BH - 299 (4')

Lab Sample ID: 890-7692-17
Date Collected: 02/19/25 08:20
Matrix: Solid
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 15:07	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 299 (4')

Lab Sample ID: 890-7692-17
Matrix: Solid
Date Collected: 02/19/25 08:20
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 17:49	CH	EET MID

Client Sample ID: BH - 300 (4')

Lab Sample ID: 890-7692-18
Matrix: Solid
Date Collected: 02/19/25 08:25
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 15:23	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 17:55	CH	EET MID

Client Sample ID: BH - 301 (4')

Lab Sample ID: 890-7692-19
Matrix: Solid
Date Collected: 02/19/25 08:30
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 15:37	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 18:00	CH	EET MID

Client Sample ID: BH - 302 (4')

Lab Sample ID: 890-7692-20
Matrix: Solid
Date Collected: 02/19/25 08:35
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103257	02/20/25 08:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103130	02/20/25 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 19:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 15:53	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103265	02/20/25 09:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103279	02/20/25 18:06	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 303 (4')

Lab Sample ID: 890-7692-21
Matrix: Solid
Date Collected: 02/19/25 08:40
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 11:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 11:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 16:07	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103285	02/20/25 17:14	CH	EET MID

Client Sample ID: BH - 304 (4')

Lab Sample ID: 890-7692-22
Matrix: Solid
Date Collected: 02/19/25 08:45
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 16:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 16:24	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103285	02/20/25 17:32	CH	EET MID

Client Sample ID: BH - 305 (4')

Lab Sample ID: 890-7692-23
Matrix: Solid
Date Collected: 02/19/25 08:50
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 16:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 16:38	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103285	02/20/25 17:38	CH	EET MID

Client Sample ID: BH - 306 (4')

Lab Sample ID: 890-7692-24
Matrix: Solid
Date Collected: 02/19/25 08:55
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:12	AJ	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 306 (4')

Lab Sample ID: 890-7692-24
Matrix: Solid
Date Collected: 02/19/25 08:55
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103322	02/20/25 16:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 16:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103285	02/20/25 17:45	CH	EET MID

Client Sample ID: BH - 307 (4')

Lab Sample ID: 890-7692-25
Matrix: Solid
Date Collected: 02/19/25 09:00
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 17:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 17:07	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103285	02/20/25 17:51	CH	EET MID

Client Sample ID: BH - 308 (4')

Lab Sample ID: 890-7692-26
Matrix: Solid
Date Collected: 02/19/25 09:05
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 17:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 17:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103028	02/18/25 11:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103290	02/20/25 17:22	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103285	02/20/25 18:09	CH	EET MID

Client Sample ID: BH - 309 (4')

Lab Sample ID: 890-7692-27
Matrix: Solid
Date Collected: 02/19/25 09:10
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 13:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103029	02/18/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 13:45	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 309 (4')

Lab Sample ID: 890-7692-27
Matrix: Solid
Date Collected: 02/19/25 09:10
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103285	02/20/25 18:15	CH	EET MID

Client Sample ID: BH - 310 (4')

Lab Sample ID: 890-7692-28
Matrix: Solid
Date Collected: 02/19/25 09:15
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103029	02/18/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 14:32	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103285	02/20/25 18:21	CH	EET MID

Client Sample ID: BH - 311 (4')

Lab Sample ID: 890-7692-29
Matrix: Solid
Date Collected: 02/19/25 09:20
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 18:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 14:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103029	02/18/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 14:48	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	103285	02/20/25 18:27	CH	EET MID

Client Sample ID: SW - 107

Lab Sample ID: 890-7692-30
Matrix: Solid
Date Collected: 02/19/25 09:25
Date Received: 02/19/25 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103258	02/20/25 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103314	02/20/25 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103322	02/20/25 15:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103029	02/18/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 15:04	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103285	02/20/25 18:33	CH	EET MID

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-7692-1
SDG: 212C - MD - 03085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7692-1	BH - 283 (4')	Solid	02/19/25 07:00	02/19/25 15:01
890-7692-2	BH - 284 (4')	Solid	02/19/25 07:05	02/19/25 15:01
890-7692-3	BH - 285 (4')	Solid	02/19/25 07:10	02/19/25 15:01
890-7692-4	BH - 286 (4')	Solid	02/19/25 07:15	02/19/25 15:01
890-7692-5	BH - 287 (4')	Solid	02/19/25 07:20	02/19/25 15:01
890-7692-6	BH - 288 (4')	Solid	02/19/25 07:25	02/19/25 15:01
890-7692-7	BH - 289 (4')	Solid	02/19/25 07:30	02/19/25 15:01
890-7692-8	BH - 290 (4')	Solid	02/19/25 07:35	02/19/25 15:01
890-7692-9	BH - 291 (4')	Solid	02/19/25 07:40	02/19/25 15:01
890-7692-10	BH - 292 (4')	Solid	02/19/25 07:45	02/19/25 15:01
890-7692-11	BH - 293 (4')	Solid	02/19/25 07:50	02/19/25 15:01
890-7692-12	BH - 294 (4')	Solid	02/19/25 07:55	02/19/25 15:01
890-7692-13	BH - 295 (4')	Solid	02/19/25 08:00	02/19/25 15:01
890-7692-14	BH - 296 (4')	Solid	02/19/25 08:05	02/19/25 15:01
890-7692-15	BH - 297 (4')	Solid	02/19/25 08:10	02/19/25 15:01
890-7692-16	BH - 298 (4')	Solid	02/19/25 08:15	02/19/25 15:01
890-7692-17	BH - 299 (4')	Solid	02/19/25 08:20	02/19/25 15:01
890-7692-18	BH - 300 (4')	Solid	02/19/25 08:25	02/19/25 15:01
890-7692-19	BH - 301 (4')	Solid	02/19/25 08:30	02/19/25 15:01
890-7692-20	BH - 302 (4')	Solid	02/19/25 08:35	02/19/25 15:01
890-7692-21	BH - 303 (4')	Solid	02/19/25 08:40	02/19/25 15:01
890-7692-22	BH - 304 (4')	Solid	02/19/25 08:45	02/19/25 15:01
890-7692-23	BH - 305 (4')	Solid	02/19/25 08:50	02/19/25 15:01
890-7692-24	BH - 306 (4')	Solid	02/19/25 08:55	02/19/25 15:01
890-7692-25	BH - 307 (4')	Solid	02/19/25 09:00	02/19/25 15:01
890-7692-26	BH - 308 (4')	Solid	02/19/25 09:05	02/19/25 15:01
890-7692-27	BH - 309 (4')	Solid	02/19/25 09:10	02/19/25 15:01
890-7692-28	BH - 310 (4')	Solid	02/19/25 09:15	02/19/25 15:01
890-7692-29	BH - 311 (4')	Solid	02/19/25 09:20	02/19/25 15:01
890-7692-30	SW - 107	Solid	02/19/25 09:25	02/19/25 15:01

Page 1480 of 1592

Analysis Request of Chain of Custody Record

Page 1 of 3



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	~~BH-283 (4')~~	~~2/19/2025~~	7:00		X			X			X		X												X				
	BH-284 (4')	2/19/2025	7:05		X			X			X		X												X				
	BH-285 (4')	2/19/2025	7:10		X			X			X		X												X				
	BH-286 (4')	2/19/2025	7:15		X			X			X		X												X				
	BH-287 (4')	2/19/2025	7:20		X			X			X		X												X				
	BH-288 (4')	2/19/2025	7:25		X			X			X		X												X				
	BH-289 (4')	2/19/2025	7:30		X			X			X		X												X				
	BH-290 (4')	2/19/2025	7:35		X			X			X		X												X				
	BH-291 (4')	2/19/2025	7:40		X			X			X		X												X				
	BH-292 (4')	2/19/2025	7:45		X			X			X		X												X				

	Date:	Time:		Date:	Time:
Relinquished by:	2-19-25	1458	Received by:	2/19	15:01
Relinquished by:			Received by:		
Relinquished by:			Received by:		

LAB USE ONLY

Sample Temperature
Temp Blank: 3.2
3.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 64 of 68

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

2/21/2025

Page 1481 of 1592

Analysis Request of Chain of Custody Record

2/21/2025

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	**Site Manager:** Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2025)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GCMS Vol. 8260B / 624	GCMS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH-293 (4')	2/19/2025	7:50		X			X			X			X												X						
	BH-294 (4')	2/19/2025	7:55		X			X			X			X												X						
	BH-295 (4')	2/19/2025	8:00		X			X			X			X												X						
	BH-296 (4')	2/19/2025	8:05		X			X			X			X												X						
	BH-297 (4')	2/19/2025	8:10		X			X			X			X												X						
	BH-298 (4')	2/19/2025	8:15		X			X			X			X												X						
	BH-299 (4')	2/19/2025	8:20		X			X			X			X												X						
	BH-300 (4')	2/19/2025	8:25		X			X			X			X												X						
	BH-301 (4')	2/19/2025	8:30		X			X			X			X												X						
	BH-302 (4')	2/19/2025	8:35		X			X			X			X												X						

Relinquished by:	Date: 2-19-25	Time: 1458	Received by: Date: 2/19 Time: 15
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
TNMC7
-0.2
3.2
3.0

REMARKS:

- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 65 of 68

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Page 1482 of 1592

Analysis Request of Chain of Custody Record

Page 3 of 3

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (2025)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	~~BH-303 (4')~~	2/19/2025	8:40		X			X			X		X											X						
	BH-304 (4')	2/19/2025	8:45		X			X			X		X											X						
	BH-305 (4')	2/19/2025	8:50		X			X			X		X											X						
	BH-306 (4')	2/19/2025	8:55		X			X			X		X											X						
	BH-307 (4')	2/19/2025	9:00		X			X			X		X											X						
	BH-308 (4')	2/19/2025	9:05		X			X			X		X											X						
	BH-309 (4')	2/19/2025	9:10		X			X			X		X											X						
	BH-310 (4')	2/19/2025	9:15		X			X			X		X											X						
	BH-311 (4')	2/19/2025	9:20		X			X			X		X											X						
	SW-107	2/19/2025	9:25		X			X			X		X											X						

Relinquished by:	Date: 2-19-25	Time: 1434	Received by: Date: 2/19 Time: 15[illegible]
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature
7 Wmon
-0.2
3.2
3.0

REMARKS:

X RUSH: Same Day 24 hr 48 hr ~~72 hr~~

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 66 of 68

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

2/21/2025

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7692-1
SDG Number: 212C - MD - 03085

Login Number: 7692
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7692-1
SDG Number: 212C - MD - 03085

Login Number: 7692
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 02/20/25 08:20 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/21/2025 2:38:47 PM

JOB DESCRIPTION

Iceman SWD
Eddy County NM

JOB NUMBER

890-7693-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

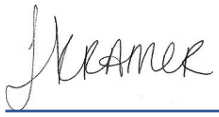
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/21/2025 2:38:47 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Laboratory Job ID: 890-7693-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Iceman SWD

Job ID: 890-7693-1

Job ID: 890-7693-1 Eurofins Carlsbad

Job Narrative
890-7693-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 2/19/2025 3:01 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions
The following samples analyzed for method were received and analyzed from an unpreserved bulk soil jar: SW-105 (890-7693-1).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103029 and analytical batch 880-103292 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103029 and analytical batch 880-103292 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Client Sample ID: SW-105

Date Collected: 02/19/25 09:30
Date Received: 02/19/25 15:01

Lab Sample ID: 890-7693-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:21	02/20/25 14:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:21	02/20/25 14:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:21	02/20/25 14:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/20/25 11:21	02/20/25 14:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/20/25 11:21	02/20/25 14:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/20/25 11:21	02/20/25 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/20/25 11:21*	*02/20/25 14:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/20/25 11:21*	*02/20/25 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/20/25 14:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/20/25 15:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/18/25 11:21	02/20/25 15:19	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/18/25 11:21	02/20/25 15:19	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/18/25 11:21	02/20/25 15:19	1
Total TPH	<49.7	U	49.7		mg/Kg		02/18/25 11:21	02/20/25 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*02/18/25 11:21*	*02/20/25 15:19*	*1*
o-Terphenyl	*85*		*70 - 130*	*02/18/25 11:21*	*02/20/25 15:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.4**		10.0		mg/Kg			02/20/25 18:39	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7692-A-21-B MS	Matrix Spike	102	100
890-7692-A-21-C MSD	Matrix Spike Duplicate	99	101
890-7693-1	SW-105	110	94
LCS 880-103258/1-A	Lab Control Sample	101	100
LCSD 880-103258/2-A	Lab Control Sample Dup	91	99
MB 880-103258/5-A	Method Blank	87	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7692-A-27-B MS	Matrix Spike	84	86
890-7692-A-27-C MSD	Matrix Spike Duplicate	83	85
890-7693-1	SW-105	92	85
LCS 880-103029/2-A	Lab Control Sample	87	90
LCSD 880-103029/3-A	Lab Control Sample Dup	90	92
MB 880-103029/1-A	Method Blank	140 S1+	131 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103258/5-A
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/25 08:27	02/20/25 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 08:27	02/20/25 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*02/20/25 08:27*	*02/20/25 11:31*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/20/25 08:27*	*02/20/25 11:31*	*1*

Lab Sample ID: LCS 880-103258/1-A
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130
Toluene	0.100	0.1063		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.1983		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-103258/2-A
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103258

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1054		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1961		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7692-A-21-B MS
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1054		mg/Kg		106	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1042		mg/Kg		104	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7692-A-21-B MS
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.0998	0.1041		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1929		mg/Kg		97	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1072		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7692-A-21-C MSD
Matrix: Solid
Analysis Batch: 103254

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 103258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1088		mg/Kg		109	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1042		mg/Kg		105	70 - 130	0	35
Toluene	<0.00200	U	0.0996	0.1055		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1890		mg/Kg		95	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.1053		mg/Kg		106	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-103029/1-A
Matrix: Solid
Analysis Batch: 103292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1
Total TPH	<50.0	U	50.0		mg/Kg		02/18/25 11:21	02/20/25 01:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*02/18/25 11:21*	*02/20/25 01:43*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*02/18/25 11:21*	*02/20/25 01:43*	*1*

Lab Sample ID: LCS 880-103029/2-A
Matrix: Solid
Analysis Batch: 103292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	793.8		mg/Kg		79	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-103029/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	814.9		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-103029/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.5		mg/Kg		84	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	847.5		mg/Kg		85	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-7692-A-27-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	691.2	F1	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	734.7		mg/Kg		74	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 890-7692-A-27-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103292 — **Prep Batch: 103029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	640.7	F1	mg/Kg		64	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	697.6		mg/Kg		70	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103283/1-A
Matrix: Solid
Analysis Batch: 103285

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/20/25 16:56	1

Lab Sample ID: LCS 880-103283/2-A
Matrix: Solid
Analysis Batch: 103285

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-103283/3-A
Matrix: Solid
Analysis Batch: 103285

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	248.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-7693-1 MS
Matrix: Solid
Analysis Batch: 103285

Client Sample ID: SW-105
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	96.4		250	356.5		mg/Kg		104	90 - 110		

Lab Sample ID: 890-7693-1 MSD
Matrix: Solid
Analysis Batch: 103285

Client Sample ID: SW-105
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	96.4		250	356.8		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 103254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Total/NA	Solid	8021B	103258
MB 880-103258/5-A	Method Blank	Total/NA	Solid	8021B	103258
LCS 880-103258/1-A	Lab Control Sample	Total/NA	Solid	8021B	103258
LCSD 880-103258/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103258
890-7692-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	103258
890-7692-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	103258

Prep Batch: 103258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Total/NA	Solid	5035	
MB 880-103258/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103258/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103258/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7692-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7692-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 103317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Total/NA	Solid	8015NM Prep	
MB 880-103029/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103029/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7692-A-27-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7692-A-27-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Total/NA	Solid	8015B NM	103029
MB 880-103029/1-A	Method Blank	Total/NA	Solid	8015B NM	103029
LCS 880-103029/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103029
LCSD 880-103029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103029
890-7692-A-27-B MS	Matrix Spike	Total/NA	Solid	8015B NM	103029
890-7692-A-27-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	103029

Analysis Batch: 103402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Soluble	Solid	DI Leach	
MB 880-103283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 103283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1 MS	SW-105	Soluble	Solid	DI Leach	
890-7693-1 MSD	SW-105	Soluble	Solid	DI Leach	

Analysis Batch: 103285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7693-1	SW-105	Soluble	Solid	300.0	103283
MB 880-103283/1-A	Method Blank	Soluble	Solid	300.0	103283
LCS 880-103283/2-A	Lab Control Sample	Soluble	Solid	300.0	103283
LCSD 880-103283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103283
890-7693-1 MS	SW-105	Soluble	Solid	300.0	103283
890-7693-1 MSD	SW-105	Soluble	Solid	300.0	103283

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Client Sample ID: SW-105

Date Collected: 02/19/25 09:30
Date Received: 02/19/25 15:01

Lab Sample ID: 890-7693-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103258	02/20/25 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103254	02/20/25 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103317	02/20/25 14:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103402	02/20/25 15:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103029	02/18/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 15:19	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	103283	02/20/25 10:28	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103285	02/20/25 18:39	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Iceman SWD

Job ID: 890-7693-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7693-1	SW-105	Solid	02/19/25 09:30	02/19/25 15:01

Page 1502 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-7693 Chain of Custody

2/21/2025

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Solairs ATTN: Rob Kirk	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	FLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance		Hold
	SW-105	2/19/2025	9:30		X				X					X		X												X						

Relinquished by: Date: 2-19-25 Time: 1458
Received by: Date: 2/19 Time: 15

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY
Sample Temperature
TNmeas
-02
3.2
3.0

REMARKS:

[X] RUSH: Same Day 24 hr 48 hr 72 hr
[ ] Rush Charges Authorized
[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM
Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7693-1
SDG Number: Eddy County NM

Login Number: 7693
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-7693-1
SDG Number: Eddy County NM

Login Number: 7693
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 02/20/25 08:20 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 5/5/2025 8:49:04 AM

JOB DESCRIPTION

ICEMAN SWD
212C - MD - 03085

JOB NUMBER

890-8037-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

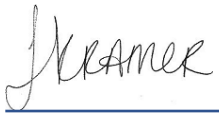
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/5/2025 8:49:04 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Laboratory Job ID: 890-8037-1
SDG: 212C - MD - 03085

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 8
QC Sample Results 9
QC Association Summary 13
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 20

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: ICEMAN SWD

Job ID: 890-8037-1

Job ID: 890-8037-1 Eurofins Carlsbad

Job Narrative
890-8037-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/25/2025 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH - 11 (4') (890-8037-1) and SW - 63 (3'-3.5') (890-8037-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108844 and analytical batch 880-108911 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-8037-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH - 11 (4') (890-8037-1), SW - 63 (3'-3.5') (890-8037-2), (LCS 880-108955/2-A), (LCSD 880-108955/3-A), (890-8034-A-6-D MS) and (890-8034-A-6-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-109022/56). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108955 and analytical batch 880-109022 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-109022 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is:(CCV 880-109022/30).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 11 (4')

Lab Sample ID: 890-8037-1
Date Collected: 04/25/25 11:30
Matrix: Solid
Date Received: 04/25/25 16:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 12:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/28/25 17:00	04/29/25 12:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/28/25 17:00	04/29/25 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/28/25 17:00*	*04/29/25 12:16*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/25 17:00*	*04/29/25 12:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/29/25 12:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/30/25 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 22:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 22:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 22:11	1
Total TPH	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*58*	*S1-*	*70 - 130*	*04/29/25 10:45*	*04/30/25 22:11*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*04/29/25 10:45*	*04/30/25 22:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.7**		10.1		mg/Kg			05/02/25 15:05	1

Client Sample ID: SW - 63 (3'-3.5')

Lab Sample ID: 890-8037-2
Date Collected: 04/25/25 11:40
Matrix: Solid
Date Received: 04/25/25 16:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/25 17:00	04/29/25 12:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/25 17:00	04/29/25 12:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*04/28/25 17:00*	*04/29/25 12:36*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/28/25 17:00*	*04/29/25 12:36*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Client Sample ID: SW - 63 (3'-3.5')

Date Collected: 04/25/25 11:40
Date Received: 04/25/25 16:05

Lab Sample ID: 890-8037-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/29/25 12:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/30/25 22:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/29/25 10:45	04/30/25 22:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/29/25 10:45	04/30/25 22:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/29/25 10:45	04/30/25 22:32	1
Total TPH	<49.7	U	49.7		mg/Kg		04/29/25 10:45	04/30/25 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*04/29/25 10:45*	*04/30/25 22:32*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*04/29/25 10:45*	*04/30/25 22:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.2**		9.96		mg/Kg			05/02/25 15:10	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8037-1	BH - 11 (4')	104	101
890-8037-1 MS	BH - 11 (4')	133 S1+	104
890-8037-1 MSD	BH - 11 (4')	127	105
890-8037-2	SW - 63 (3'-3.5')	128	113
LCS 880-108844/1-A	Lab Control Sample	125	103
LCSD 880-108844/2-A	Lab Control Sample Dup	120	108
MB 880-108844/5-A	Method Blank	244 S1+	125

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8034-A-6-D MS	Matrix Spike	65 S1-	58 S1-
890-8034-A-6-E MSD	Matrix Spike Duplicate	62 S1-	55 S1-
890-8037-1	BH - 11 (4')	58 S1-	59 S1-
890-8037-2	SW - 63 (3'-3.5')	69 S1-	68 S1-
LCS 880-108955/2-A	Lab Control Sample	19 S1-	13 S1-
LCSD 880-108955/3-A	Lab Control Sample Dup	19 S1-	13 S1-
MB 880-108955/1-A	Method Blank	126	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108844/5-A
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*244*	*S1+*	*70 - 130*	*04/28/25 17:00*	*04/29/25 11:47*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*04/28/25 17:00*	*04/29/25 11:47*	*1*

Lab Sample ID: LCS 880-108844/1-A
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108844

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1029		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1164		mg/Kg		116	70 - 130		
Toluene			0.100	0.09686		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.2244		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1167		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-108844/2-A
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108844

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1018		mg/Kg		102	70 - 130	1	35
Ethylbenzene			0.100	0.1049		mg/Kg		105	70 - 130	10	35
Toluene			0.100	0.08671		mg/Kg		87	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.2203		mg/Kg		110	70 - 130	2	35
o-Xylene			0.100	0.1187		mg/Kg		119	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-8037-1 MS
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: BH - 11 (4')
Prep Type: Total/NA
Prep Batch: 108844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09679		mg/Kg		97	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.1073		mg/Kg		107	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8037-1 MS
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: BH - 11 (4')
Prep Type: Total/NA
Prep Batch: 108844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00200	U	0.100	0.07999		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2188		mg/Kg		109	70 - 130
o-Xylene	<0.00200	U	0.100	0.1176		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8037-1 MSD
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: BH - 11 (4')
Prep Type: Total/NA
Prep Batch: 108844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1033		mg/Kg		103	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.1009		mg/Kg		101	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.08603		mg/Kg		86	70 - 130	7	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1956		mg/Kg		98	70 - 130	11	35
o-Xylene	<0.00200	U	0.100	0.1208		mg/Kg		121	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-108955/1-A
Matrix: Solid
Analysis Batch: 109022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 19:47	1
Total TPH	<50.0	U	50.0		mg/Kg		04/29/25 10:45	04/30/25 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*04/29/25 10:45*	*04/30/25 19:47*	*1*
o-Terphenyl	*124*		*70 - 130*	*04/29/25 10:45*	*04/30/25 19:47*	*1*

Lab Sample ID: LCS 880-108955/2-A
Matrix: Solid
Analysis Batch: 109022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1268		mg/Kg		127	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-108955/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109022 — **Prep Batch: 108955**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1095		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*19*	*S1-*	*70 - 130*
o-Terphenyl	*13*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-108955/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109022 — **Prep Batch: 108955**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1261		mg/Kg		126	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1049		mg/Kg		105	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*19*	*S1-*	*70 - 130*
o-Terphenyl	*13*	*S1-*	*70 - 130*

Lab Sample ID: 890-8034-A-6-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109022 — **Prep Batch: 108955**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	887.1		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	504.4	F1	mg/Kg		50	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*65*	*S1-*	*70 - 130*
o-Terphenyl	*58*	*S1-*	*70 - 130*

Lab Sample ID: 890-8034-A-6-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109022 — **Prep Batch: 108955**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	857.2		mg/Kg		86	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	487.3	F1	mg/Kg		49	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*62*	*S1-*	*70 - 130*
o-Terphenyl	*55*	*S1-*	*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108959/1-A
Matrix: Solid
Analysis Batch: 109185

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/01/25 13:03	1

Lab Sample ID: LCS 880-108959/2-A
Matrix: Solid
Analysis Batch: 109185

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-108959/3-A
Matrix: Solid
Analysis Batch: 109185

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	243.6		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 880-57432-A-8-E MS
Matrix: Solid
Analysis Batch: 109185

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	125		252	383.4		mg/Kg		102	90 - 110		

Lab Sample ID: 880-57432-A-8-F MSD
Matrix: Solid
Analysis Batch: 109185

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	125		252	384.5		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

GC VOA

Prep Batch: 108844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Total/NA	Solid	5035	
890-8037-2	SW - 63 (3'-3.5')	Total/NA	Solid	5035	
MB 880-108844/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108844/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108844/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8037-1 MS	BH - 11 (4')	Total/NA	Solid	5035	
890-8037-1 MSD	BH - 11 (4')	Total/NA	Solid	5035	

Analysis Batch: 108911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Total/NA	Solid	8021B	108844
890-8037-2	SW - 63 (3'-3.5')	Total/NA	Solid	8021B	108844
MB 880-108844/5-A	Method Blank	Total/NA	Solid	8021B	108844
LCS 880-108844/1-A	Lab Control Sample	Total/NA	Solid	8021B	108844
LCSD 880-108844/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108844
890-8037-1 MS	BH - 11 (4')	Total/NA	Solid	8021B	108844
890-8037-1 MSD	BH - 11 (4')	Total/NA	Solid	8021B	108844

Analysis Batch: 108989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Total/NA	Solid	Total BTEX	
890-8037-2	SW - 63 (3'-3.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Total/NA	Solid	8015NM Prep	
890-8037-2	SW - 63 (3'-3.5')	Total/NA	Solid	8015NM Prep	
MB 880-108955/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108955/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108955/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8034-A-6-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8034-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Total/NA	Solid	8015B NM	108955
890-8037-2	SW - 63 (3'-3.5')	Total/NA	Solid	8015B NM	108955
MB 880-108955/1-A	Method Blank	Total/NA	Solid	8015B NM	108955
LCS 880-108955/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108955
LCSD 880-108955/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108955
890-8034-A-6-D MS	Matrix Spike	Total/NA	Solid	8015B NM	108955
890-8034-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	108955

Analysis Batch: 109186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Total/NA	Solid	8015 NM	
890-8037-2	SW - 63 (3'-3.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

HPLC/IC

Leach Batch: 108959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Soluble	Solid	DI Leach	
890-8037-2	SW - 63 (3'-3.5')	Soluble	Solid	DI Leach	
MB 880-108959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57432-A-8-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-57432-A-8-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 109185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8037-1	BH - 11 (4')	Soluble	Solid	300.0	108959
890-8037-2	SW - 63 (3'-3.5')	Soluble	Solid	300.0	108959
MB 880-108959/1-A	Method Blank	Soluble	Solid	300.0	108959
LCS 880-108959/2-A	Lab Control Sample	Soluble	Solid	300.0	108959
LCSD 880-108959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108959
880-57432-A-8-E MS	Matrix Spike	Soluble	Solid	300.0	108959
880-57432-A-8-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	108959

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Client Sample ID: BH - 11 (4')

Lab Sample ID: 890-8037-1

Date Collected: 04/25/25 11:30
Matrix: Solid
Date Received: 04/25/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	108844	04/28/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108911	04/29/25 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108989	04/29/25 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			109186	04/30/25 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108955	04/29/25 10:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109022	04/30/25 22:11	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	108959	04/29/25 11:16	SI	EET MID
Soluble	Analysis	300.0		1			109185	05/02/25 15:05	CH	EET MID

Client Sample ID: SW - 63 (3'-3.5')

Lab Sample ID: 890-8037-2

Date Collected: 04/25/25 11:40
Matrix: Solid
Date Received: 04/25/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108844	04/28/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108911	04/29/25 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108989	04/29/25 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			109186	04/30/25 22:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108955	04/29/25 10:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109022	04/30/25 22:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	108959	04/29/25 11:16	SI	EET MID
Soluble	Analysis	300.0		1			109185	05/02/25 15:10	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: ICEMAN SWD

Job ID: 890-8037-1
SDG: 212C - MD - 03085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-8037-1	BH - 11 (4')	Solid	04/25/25 11:30	04/25/25 16:05
890-8037-2	SW - 63 (3'-3.5')	Solid	04/25/25 11:40	04/25/25 16:05

Page 1523 of 1592

5/5/2025

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-8037 Chain of Custody

Client Name: Solaris	Site Manager: Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com
Project Location: (county, state) Eddy County, NM	Project #: 212C-MD-03085
Invoice to: Miguel Flores ATTN: Miguel Flores & Brittany Long	
Receiving Laboratory: Eurofins Laboratories	Sampler Signature: Gary Allen
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH-11 (4')	4/25/2025	11:30		X				X					X		X												X							
	SW-63 (3'-3.5')	4/25/2025	11:40		X				X					X		X												X							

Relinquished by:	Date: 4-25-25	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 4/25 Time: 16 05

LAB USE ONLY

Sample Temperature
TNM007
-0.2
5.6
5.4

REMARKS: STANDARD TAT

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-8037-1
SDG Number: 212C - MD - 03085

Login Number: 8037
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-8037-1
SDG Number: 212C - MD - 03085

Login Number: 8037
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 04/28/25 11:12 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Miguel Flores
Tetra Tech Inc
901 W Wall
Ste 100
Midland, Texas 79701

Generated 5/12/2025 4:29:35 PM

JOB DESCRIPTION

Solaris-Iceman SWD
Eddy County NM

JOB NUMBER

890-8074-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/2/2026 11:27:44 AM

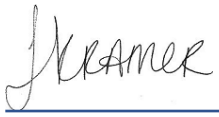
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/12/2025 4:29:35 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Laboratory Job ID: 890-8074-1
SDG: Eddy County NM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 16
Lab Chronicle 18
Certification Summary 19
Method Summary 20
Sample Summary 21
Chain of Custody 22
Receipt Checklists 23

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech Inc
Project: Solaris-Iceman SWD

Job ID: 890-8074-1

Job ID: 890-8074-1 Eurofins Carlsbad

Job Narrative
890-8074-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/1/2025 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-63 (0-1) (890-8074-1), SW-63 (1-2) (890-8074-2) and SW-63 (2-3) (890-8074-3).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-109485 and analytical batch 880-109481 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-109270/2-A) and (LCSD 880-109270/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Client Sample ID: SW-63 (0-1)

Date Collected: 05/01/25 12:30
Date Received: 05/01/25 15:35

Lab Sample ID: 890-8074-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:44	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/06/25 08:39	05/06/25 17:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/06/25 08:39	05/06/25 17:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:44*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/06/25 17:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/05/25 17:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 17:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 17:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 17:28	1
Total TPH	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/02/25 09:10*	*05/05/25 17:28*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/02/25 09:10*	*05/05/25 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**413**		10.0		mg/Kg			05/02/25 22:34	1

Client Sample ID: SW-63 (1-2)

Date Collected: 05/01/25 12:40
Date Received: 05/01/25 15:35

Lab Sample ID: 890-8074-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 18:05	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 18:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 18:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 18:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 18:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*05/06/25 08:39*	*05/06/25 18:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/06/25 08:39*	*05/06/25 18:05*	*1*

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Client Sample ID: SW-63 (1-2)

Lab Sample ID: 890-8074-2
Matrix: Solid
Date Collected: 05/01/25 12:40
Date Received: 05/01/25 15:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/06/25 18:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/05/25 17:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/02/25 09:10	05/05/25 17:42	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/02/25 09:10	05/05/25 17:42	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/02/25 09:10	05/05/25 17:42	1
Total TPH	<49.6	U	49.6		mg/Kg		05/02/25 09:10	05/05/25 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/02/25 09:10*	*05/05/25 17:42*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/02/25 09:10*	*05/05/25 17:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		9.90		mg/Kg			05/02/25 22:41	1

Client Sample ID: SW-63 (2-3)

Lab Sample ID: 890-8074-3
Matrix: Solid
Date Collected: 05/01/25 12:50
Date Received: 05/01/25 15:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 18:25	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		05/06/25 08:39	05/06/25 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 18:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 18:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 18:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/06/25 08:39*	*05/06/25 18:25*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/06/25 08:39*	*05/06/25 18:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/06/25 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/12/25 13:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/12/25 11:03	05/12/25 13:54	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Client Sample ID: SW-63 (2-3)

Date Collected: 05/01/25 12:50
Date Received: 05/01/25 15:35

Lab Sample ID: 890-8074-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/12/25 11:03	05/12/25 13:54	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/12/25 11:03	05/12/25 13:54	1
Total TPH	<50.3	U	50.3		mg/Kg		05/12/25 11:03	05/12/25 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*05/12/25 11:03*	*05/12/25 13:54*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/12/25 11:03*	*05/12/25 13:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		10.1		mg/Kg			05/02/25 22:48	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8074-1	SW-63 (0-1)	100	84
890-8074-2	SW-63 (1-2)	121	99
890-8074-3	SW-63 (2-3)	93	82
890-8092-A-1-B MS	Matrix Spike	106	87
890-8092-A-1-C MSD	Matrix Spike Duplicate	111	104
LCS 880-109485/1-A	Lab Control Sample	103	95
LCSD 880-109485/2-A	Lab Control Sample Dup	108	88
MB 880-109485/5-A	Method Blank	85	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8073-A-33-B MS	Matrix Spike	119	100
890-8073-A-33-C MSD	Matrix Spike Duplicate	116	98
890-8074-1	SW-63 (0-1)	103	91
890-8074-2	SW-63 (1-2)	108	95
890-8074-3	SW-63 (2-3)	114	120
890-8142-A-5-E MS	Matrix Spike	106	105
890-8142-A-5-F MSD	Matrix Spike Duplicate	106	108
LCS 880-109270/2-A	Lab Control Sample	157 S1+	135 S1+
LCS 880-109950/2-A	Lab Control Sample	82	82
LCSD 880-109270/3-A	Lab Control Sample Dup	147 S1+	125
LCSD 880-109950/3-A	Lab Control Sample Dup	96	94
MB 880-109270/1-A	Method Blank	115	104
MB 880-109950/1-A	Method Blank	74	72

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109485/5-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:28*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:28*	*1*

Lab Sample ID: LCS 880-109485/1-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1160		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1330	*+	mg/Kg		133	70 - 130
Toluene	0.100	0.1089		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2508		mg/Kg		125	70 - 130
o-Xylene	0.100	0.1251		mg/Kg		125	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-109485/2-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1102		mg/Kg		110	70 - 130	5	35
Ethylbenzene	0.100	0.1311	*+	mg/Kg		131	70 - 130	1	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2496		mg/Kg		125	70 - 130	0	35
o-Xylene	0.100	0.1247		mg/Kg		125	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-8092-A-1-B MS
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.09838		mg/Kg		98	70 - 130
Ethylbenzene	<0.00198	U *+	0.100	0.1131		mg/Kg		113	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8092-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109481 — **Prep Batch: 109485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00198	U	0.100	0.09636		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2180		mg/Kg		109	70 - 130
o-Xylene	<0.00198	U	0.100	0.1088		mg/Kg		109	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-8092-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109481 — **Prep Batch: 109485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1113		mg/Kg		111	70 - 130	12	35
Ethylbenzene	<0.00198	U *+	0.100	0.1070		mg/Kg		107	70 - 130	6	35
Toluene	<0.00198	U	0.100	0.09622		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2043		mg/Kg		102	70 - 130	6	35
o-Xylene	<0.00198	U	0.100	0.1196		mg/Kg		120	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109270/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109396 — **Prep Batch: 109270**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/25 09:09	05/05/25 09:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/25 09:09	05/05/25 09:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/25 09:09	05/05/25 09:32	1
Total TPH	<50.0	U	50.0		mg/Kg		05/02/25 09:09	05/05/25 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/02/25 09:09*	*05/05/25 09:32*	*1*
o-Terphenyl	*104*		*70 - 130*	*05/02/25 09:09*	*05/05/25 09:32*	*1*

Lab Sample ID: LCS 880-109270/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109396 — **Prep Batch: 109270**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	980.0		mg/Kg		98	70 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109270/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109396 — **Prep Batch: 109270**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	969.0		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*157*	*S1+*	*70 - 130*
o-Terphenyl	*135*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-109270/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109396 — **Prep Batch: 109270**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	918.1		mg/Kg		92	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	934.8		mg/Kg		93	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*147*	*S1+*	*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: 890-8073-A-33-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109396 — **Prep Batch: 109270**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1090		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	994	978.6		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-8073-A-33-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109396 — **Prep Batch: 109270**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1034		mg/Kg		104	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	994	1010		mg/Kg		102	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-109950/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109955 — **Prep Batch: 109950**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/25 11:03	05/12/25 10:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/25 11:03	05/12/25 10:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/25 11:03	05/12/25 10:18	1
Total TPH	<50.0	U	50.0		mg/Kg		05/12/25 11:03	05/12/25 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*05/12/25 11:03*	*05/12/25 10:18*	*1*
o-Terphenyl	*72*		*70 - 130*	*05/12/25 11:03*	*05/12/25 10:18*	*1*

Lab Sample ID: LCS 880-109950/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109955 — **Prep Batch: 109950**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	716.1		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	758.9		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: LCSD 880-109950/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109955 — **Prep Batch: 109950**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	859.4		mg/Kg		86	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	864.8		mg/Kg		86	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 890-8142-A-5-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109955 — **Prep Batch: 109950**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	990	797.6		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	990	733.0		mg/Kg		74	70 - 130		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8142-A-5-E MS
Matrix: Solid
Analysis Batch: 109955

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109950

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-8142-A-5-F MSD
Matrix: Solid
Analysis Batch: 109955

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109950

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	990	796.5		mg/Kg		80	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	990	743.7		mg/Kg		75	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	108		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109293/1-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/02/25 16:39	1

Lab Sample ID: LCS 880-109293/2-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.0		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-109293/3-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.3		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-8073-A-33-E MS
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	191		251	460.6		mg/Kg		108	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8073-A-33-F MSD
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	191		251	461.6		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 109481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Total/NA	Solid	8021B	109485
890-8074-2	SW-63 (1-2)	Total/NA	Solid	8021B	109485
890-8074-3	SW-63 (2-3)	Total/NA	Solid	8021B	109485
MB 880-109485/5-A	Method Blank	Total/NA	Solid	8021B	109485
LCS 880-109485/1-A	Lab Control Sample	Total/NA	Solid	8021B	109485
LCSD 880-109485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109485
890-8092-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	109485
890-8092-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109485

Prep Batch: 109485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Total/NA	Solid	5035	
890-8074-2	SW-63 (1-2)	Total/NA	Solid	5035	
890-8074-3	SW-63 (2-3)	Total/NA	Solid	5035	
MB 880-109485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8092-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8092-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Total/NA	Solid	Total BTEX	
890-8074-2	SW-63 (1-2)	Total/NA	Solid	Total BTEX	
890-8074-3	SW-63 (2-3)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Total/NA	Solid	8015NM Prep	
890-8074-2	SW-63 (1-2)	Total/NA	Solid	8015NM Prep	
MB 880-109270/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109270/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8073-A-33-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8073-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Total/NA	Solid	8015B NM	109270
890-8074-2	SW-63 (1-2)	Total/NA	Solid	8015B NM	109270
MB 880-109270/1-A	Method Blank	Total/NA	Solid	8015B NM	109270
LCS 880-109270/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109270
LCSD 880-109270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109270
890-8073-A-33-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109270
890-8073-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109270

Analysis Batch: 109530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 109530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-2	SW-63 (1-2)	Total/NA	Solid	8015 NM	
890-8074-3	SW-63 (2-3)	Total/NA	Solid	8015 NM	

Prep Batch: 109950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-3	SW-63 (2-3)	Total/NA	Solid	8015NM Prep	
MB 880-109950/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109950/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8142-A-5-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8142-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-3	SW-63 (2-3)	Total/NA	Solid	8015B NM	109950
MB 880-109950/1-A	Method Blank	Total/NA	Solid	8015B NM	109950
LCS 880-109950/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109950
LCSD 880-109950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109950
890-8142-A-5-E MS	Matrix Spike	Total/NA	Solid	8015B NM	109950
890-8142-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109950

HPLC/IC

Leach Batch: 109293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Soluble	Solid	DI Leach	
890-8074-2	SW-63 (1-2)	Soluble	Solid	DI Leach	
890-8074-3	SW-63 (2-3)	Soluble	Solid	DI Leach	
MB 880-109293/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109293/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109293/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8073-A-33-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8073-A-33-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 109323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8074-1	SW-63 (0-1)	Soluble	Solid	300.0	109293
890-8074-2	SW-63 (1-2)	Soluble	Solid	300.0	109293
890-8074-3	SW-63 (2-3)	Soluble	Solid	300.0	109293
MB 880-109293/1-A	Method Blank	Soluble	Solid	300.0	109293
LCS 880-109293/2-A	Lab Control Sample	Soluble	Solid	300.0	109293
LCSD 880-109293/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109293
890-8073-A-33-E MS	Matrix Spike	Soluble	Solid	300.0	109293
890-8073-A-33-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	109293

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Client Sample ID: SW-63 (0-1)

Date Collected: 05/01/25 12:30
Date Received: 05/01/25 15:35

Lab Sample ID: 890-8074-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109610	05/06/25 17:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			109530	05/05/25 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 17:28	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 22:34	SMC	EET MID

Client Sample ID: SW-63 (1-2)

Date Collected: 05/01/25 12:40
Date Received: 05/01/25 15:35

Lab Sample ID: 890-8074-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109610	05/06/25 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			109530	05/05/25 17:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 17:42	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 22:41	SMC	EET MID

Client Sample ID: SW-63 (2-3)

Date Collected: 05/01/25 12:50
Date Received: 05/01/25 15:35

Lab Sample ID: 890-8074-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 18:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109610	05/06/25 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			109530	05/12/25 13:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	109950	05/12/25 11:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109955	05/12/25 13:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 22:48	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech Inc
Project/Site: Solaris-Iceman SWD

Job ID: 890-8074-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-8074-1	SW-63 (0-1)	Solid	05/01/25 12:30	05/01/25 15:35
890-8074-2	SW-63 (1-2)	Solid	05/01/25 12:40	05/01/25 15:35
890-8074-3	SW-63 (2-3)	Solid	05/01/25 12:50	05/01/25 15:35

Page 1547 of 1592

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

890-8074 Chain of Custody

5/12/2025

Client Name: Solaris	**Site Manager:** Miguel Flores
Project Name: Iceman SWD	(575) 725-1487 miguel.flores@tetratech.com brittany.long@tetratech.com
Project Location: (county, state) Eddy County, NM	**Project #:** 212C-MD-03085
Invoice to: Miguel Flores ATTN: Miguel Flores & Brittany Long	
Receiving Laboratory: Eurofins Laboratories	**Sampler Signature:** Gary Allen
Comments:	

(C... Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING 2025 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
														BTEX 8260B																							
	SW-63 (0-1')	5/1/2025	12:30		X				X					X		X												X									
	SW-63 (1'-2')	5/1/2025	12:40		X				X					X		X												X									
	SW-63 (2'-3')	5/1/2025	12:50		X				X					X		X												X									

Relinquished by: Gary Allen	Date: 5-1-25	Time: 3:35pm	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature
Thmeo
-0.2
-3.6
-3.4

REMARKS: STANDARD TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Received by OCD: 6/1/2026 3:55:55 PM

Released to Imaging: 6/2/2026 11:27:44 AM

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-8074-1
SDG Number: Eddy County NM

Login Number: 8074
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 890-8074-1
SDG Number: Eddy County NM

Login Number: 8074
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/02/25 08:48 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

TETRA TECH

Appendix F

Soil Survey Data

Released to Imaging: 6/2/2026 11:27:44 AM
Received by OCD: 6/1/2026 3:55:55 PM

Soil Map—Eddy Area, New Mexico
(NRCS - Soil Map)



Map Scale: 1:4,250 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Released to Imaging: 6/2/2026 11:27:44 AM
Received by OCD: 6/1/2026 3:55:55 PM

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 20, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Page 1552 of 1592

Released to Imaging: 6/2/2026 11:27:44 AM

Map Unit Legend

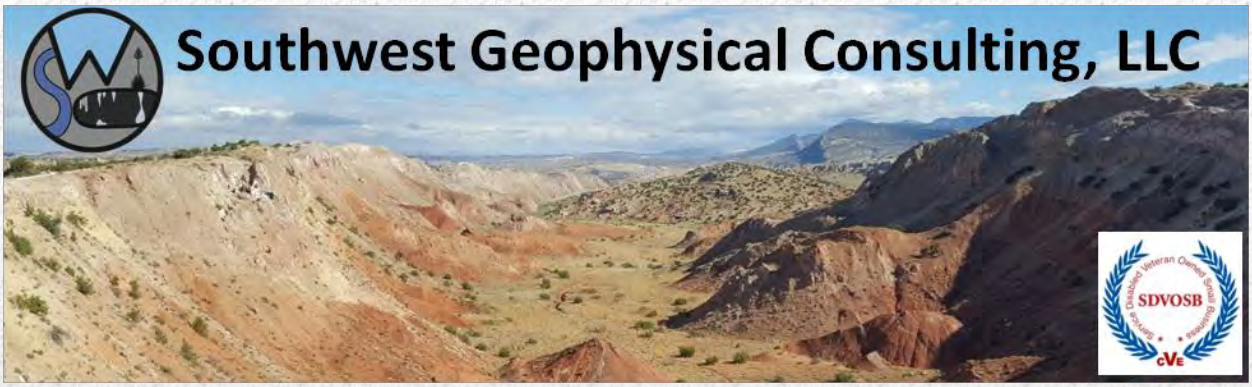
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RE	Reagan-Upton association, 0 to 9 percent slopes	68.4	77.5%
UG	Upton gravelly loam, 0 to 9 percent slopes	19.8	22.5%
Totals for Area of Interest		**88.2**	**100.0%**

Received by OCD: 6/1/2026 3:55:55 PM
Page 1553 of 1592

APPENDIX B

Environmental Karst Survey Report

P.O. Box 62228 Midland . TX . 79711 . Tel: 432-563-2200 . Fax: 432-563-2213



Environmental Karst Study Report
Solaris – Iceman SWD
Eddy County, New Mexico

Prepared For:

eTech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Within 200 feet of the spill delineation boundary:

☑ Negative ☐ Positive for surface karst

☑ Stable ☐ Unstable Ground

☐ Karst Monitor Recommended

February 23, 2026

ENS-034-20251229

©2026 – Southwest Geophysical Consulting, LLC. All rights reserved.

Published by:
Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
(505) 585-2550
www.swgeophys.com

Prepared by:
Garrett Jorgensen Olague
Senior Field Geologist
garrett@swgeophys.com

Reviewed by:
David Decker, PhD, PG, CPG
CEO, Principal Geologist
dave@swgeophys.com

Prepared for:
eTech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Point of Contact:
Blake Estep
(432) 634-5413
blake@etechenv.com

MMXXVI

TABLE OF CONTENTS

FRONT MATTER i
TABLE OF CONTENTS ii
LIST OF FIGURES iii
LIST OF TABLES iii
1.0 INTRODUCTION 1
1.1 Goals of this Study 1
1.2 Summary of Findings 1
1.3 Affected Environment 1
1.4 Limitations of Report 3
2.0 LOCATION AND DESCRIPTION OF STUDY AREA 4
2.1 Description of Site 4
2.2 Local Geology Summary 5
2.3 Description of Survey 6
2.3.1 Surface Karst Survey 6
2.3.2 Geophysical Survey 8
3.0 RESULTS 10
3.1 Surface Karst Survey 10
3.2 Geophysical Survey 11
4.0 DISCUSSION 12
5.0 SUMMARY 14
6.0 DISCLOSURE STATEMENT 14
7.0 REFERENCES 16
8.0 GLOSSARY OF TERMS 18
9.0 ATTESTATION 20

LIST OF FIGURES

Figure 1: Karst occurrence zone overview 2
Figure 2: Land ownership and PLSS overview 4
Figure 3: Geology overview 5
Figure 4: Surface survey overview 7
Figure 5: Geophysical survey overview 8
Figure 6: Surface karst survey results 10
Figure 7: 2D inverted resistivity section 11
Figure 8: Data overlay 12

LIST OF TABLES

Table 1: Survey Line Data Table 9
Table 2: Software Information and Settings 9

1.0 INTRODUCTION

This report was commissioned by eTech Environmental & Safety Solutions, Inc. (hereinafter referred to as "the client"), on January 27, 2026, for the purpose of conducting an environmental karst study within an area encompassing the Solaris - Iceman SWD release site (hereinafter termed “ICMS”) centered at N 32.299479° W 104.218495°

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions[2]) within 200 feet of the spill delineation boundary of the Solaris - Iceman SWD release as provided by the client via e-mail (**Iceman SWD AOC.kmz**) on January 27, 2026, using electrical resistivity imaging[3].

1.2 Summary of Findings

- **No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.**

1.3 Affected Environment

The ICMS project is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone[5] (HKOZ) (**Figure 1**).

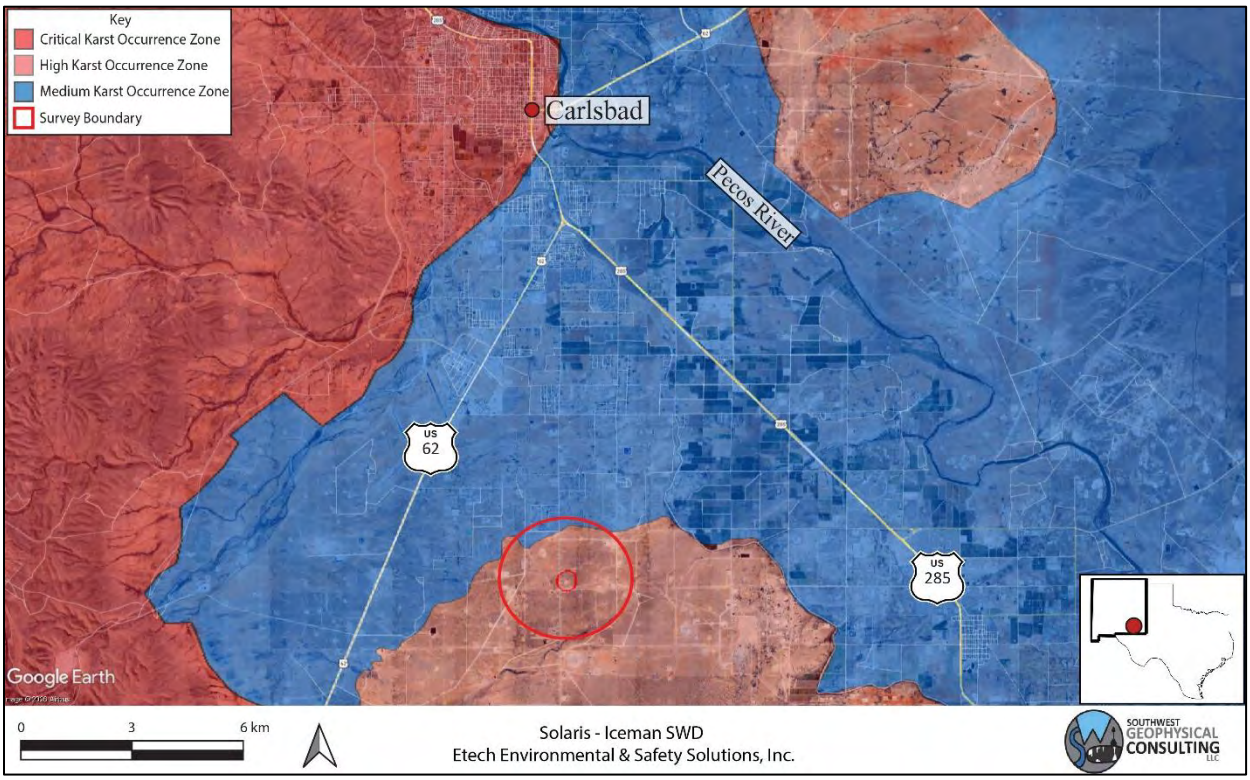


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: March 22, 2025. Image datum: WGS-84.

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat[4].

Due to the rapidity with which evaporite karst develops, each location within BLM-CFO designated critical- and high-karst occurrence zones must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of eTech Environmental & Safety Solutions, Inc., in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, information contained in this report is accurate at the date of issue; however, conditions on the site can change over a short period of time and, therefore, the information in this report should not be used beyond two years, and shall not be used beyond five years past the date of the imagery collection reported in section ***2.3 Description of Survey***, as per BLM guidelines. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located in Eddy County, New Mexico, 13.2 kilometers (8.2 miles) south of Carlsbad, east of Old Caverns Highway and south of Sterling 6 Road. The release area is located within the SW ¼ section of section 17, NM T23S R27E[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock[7] (see section ***2.2 Local Geology Summary*** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January[8]. This area is within the Chihuahuan Creosotebush, Mixed Desert and Thorn Scrub as defined by the Southwestern Regional ReGAP Vegetation map[9] and the vegetation consists mostly of creosote bush, thorn scrubs including lechuguilla, ocotillo, sotol, mesquite, prickly pear, and acacia, and other desert scrub and grasses. The spill delineation boundary is located within an HKOZ[5] (**Figure 1**) and within NMSLO managed land[10] (**Figure 2**).

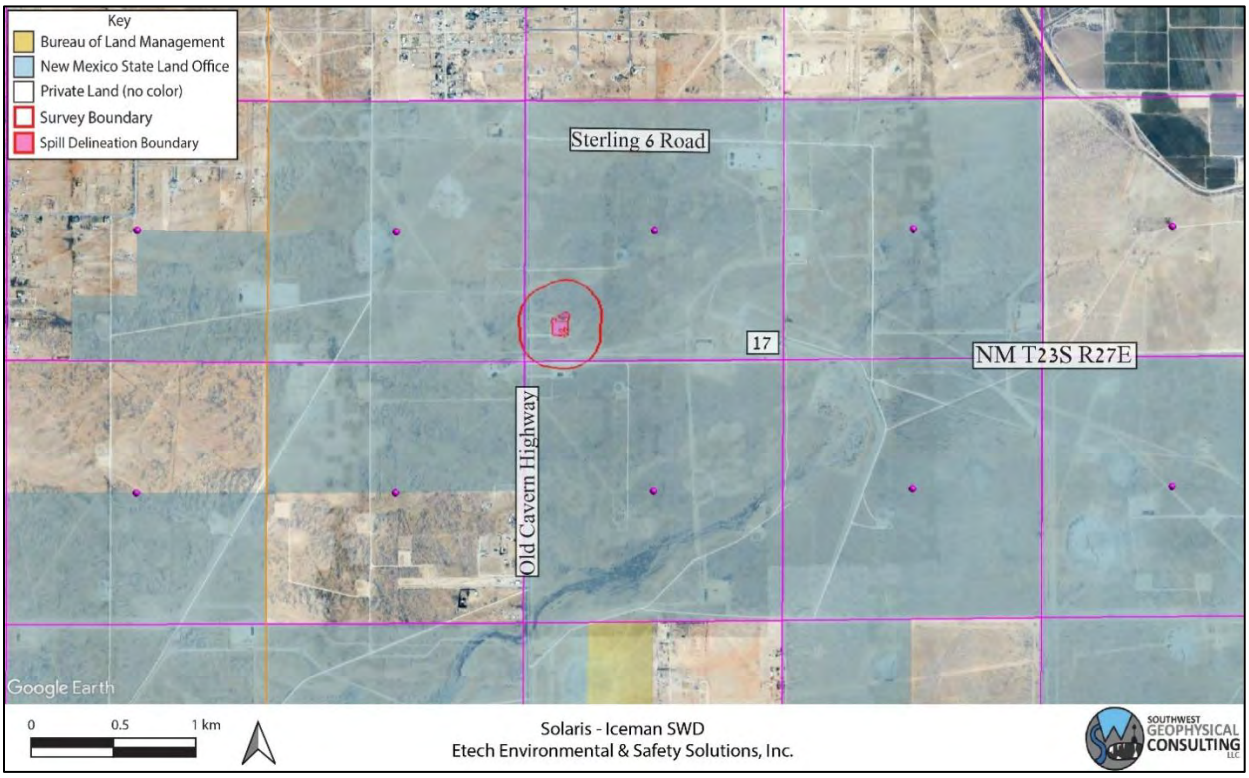


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: March 22, 2025. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the ICMS survey is located at an elevation of 971 meters (3,186 feet), ± 2 meters (6.6 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvium (Qal) and piedmont deposits (Qp)[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)[12].

The Pru overlies the Permian Salado Formation (Psl), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format[11].

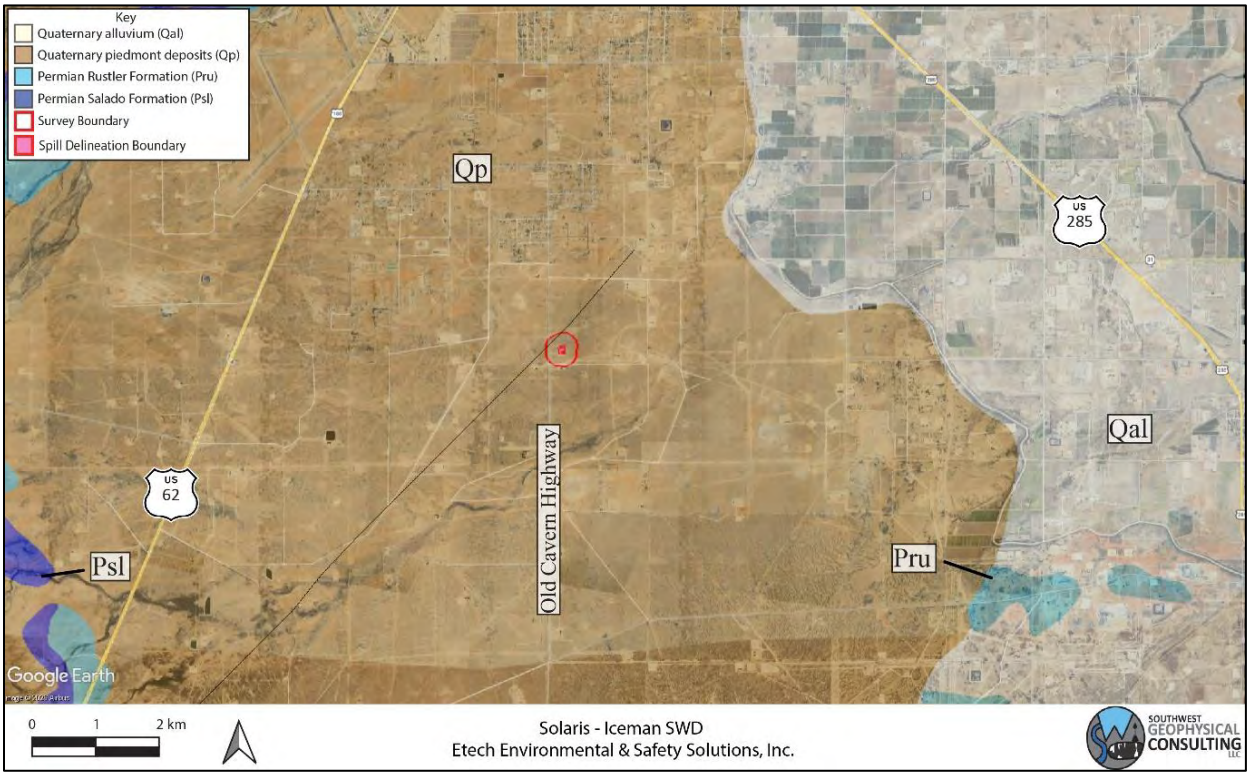


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: March 22, 2025. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated March 22, 2025 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated January 28, 2026[15]; the Otis, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report[16].

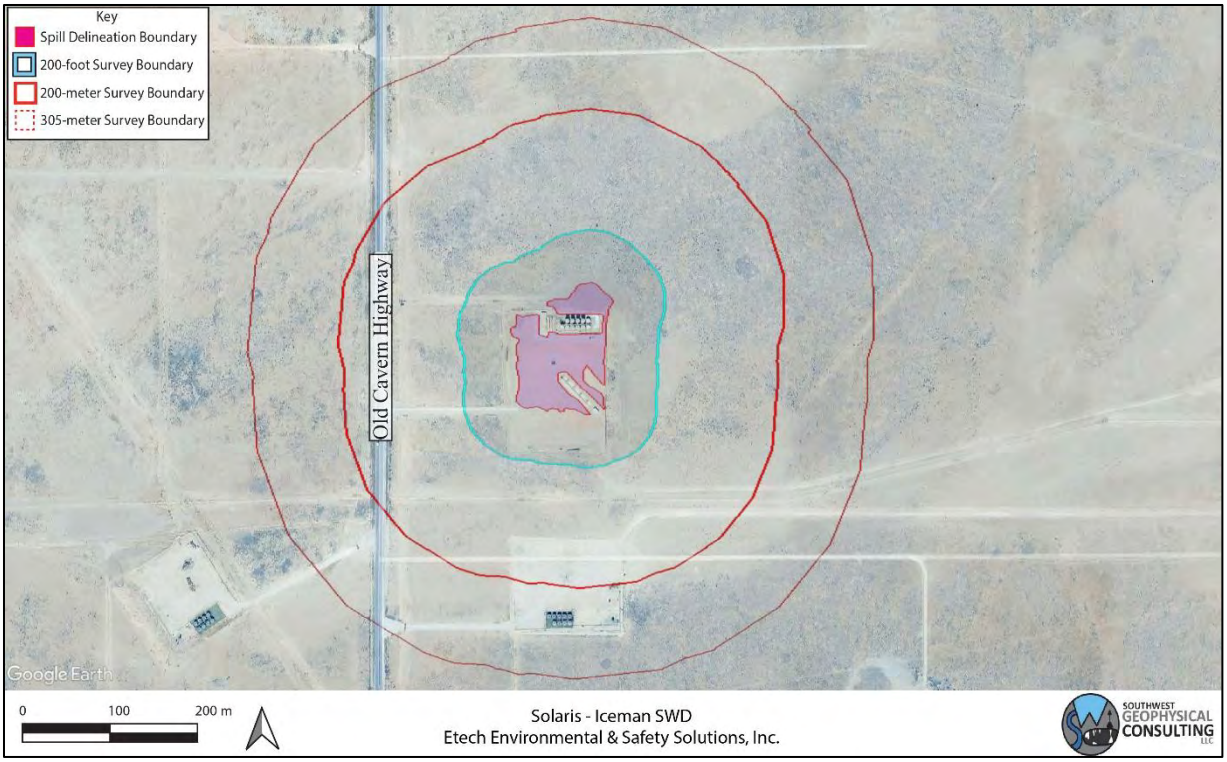


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: March 22, 2025. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on February 4, 2026. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on February 6, 2026.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with an 8-channel switchbox, a 42-electrode array of 40-centimeter-long (16-inch) stainless-steel electrodes, and a tablet controller were used to image the subsurface. The Spill Delineation Boundary provided by the client was used to plan the resistivity lines and define the survey boundaries. This survey consisted of two resistivity lines in a dipole-dipole configuration, with line ICMS01 laid out south to north and line ICMS02 laid out west to east. Both lines consisted of 42 electrodes at 5-meter electrode spacing, resulting in 205-meter-long long arrays (**Figure 5**, **Table 1**).

A preconfigured command file was used to run the data collection (DDSG42) which combines both a dipole-dipole and strong gradient survey. This electrode configuration provided a depth of investigation of 41 meters (135 feet) in this location with a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations. On this survey, the estimated horizontal error mean was 8 cm (3.1 inches), and the estimated vertical error mean was 11 cm (4.3 inches).

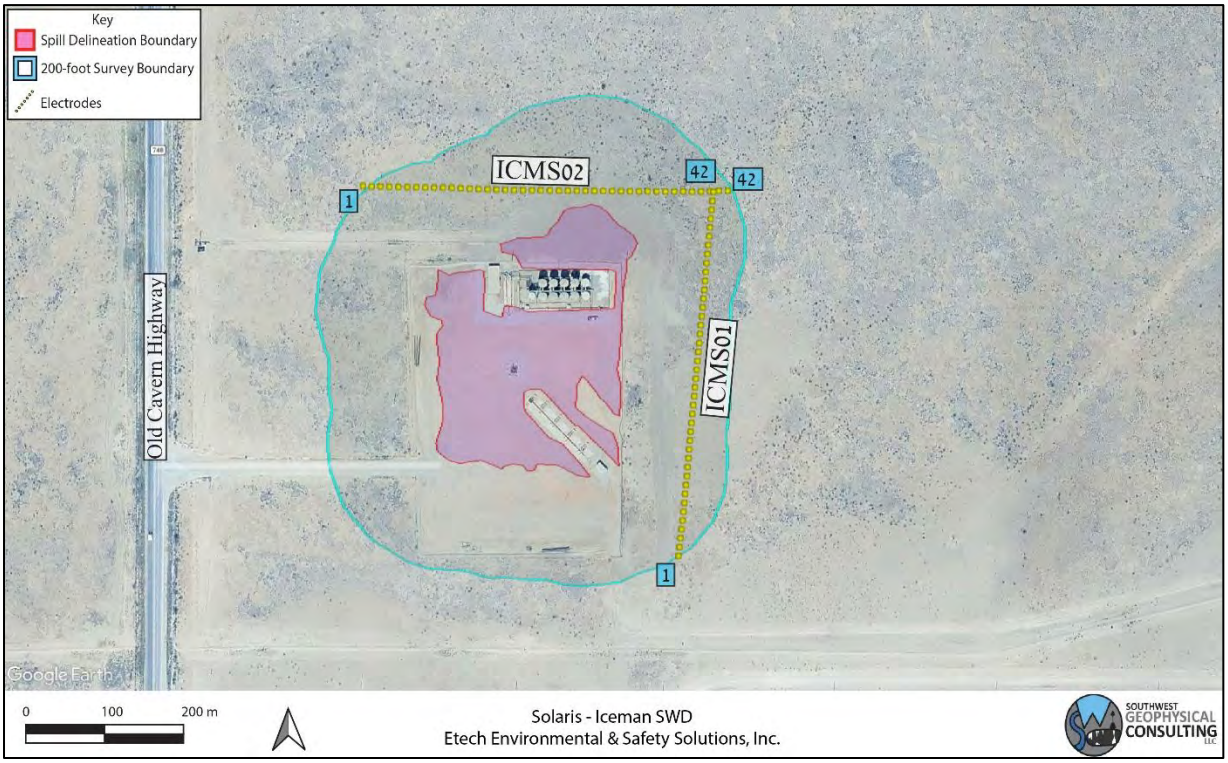


Figure 5: Geophysical survey overview. Two survey lines were conducted with 42 electrodes at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: March 22, 2025. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files ICMS_ERI_Points.xlsx and ETEC-032-20260127_ICMS_Data_Files.kmz.

File Name:	Completed By:	Date:
ICMS01.kmz	Michael Jones – Field Geophysicist Britt Bommer – Field Geologist Ryan Palmer – GIS Specialist	2/4/2026
ICMS02.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of "stable" or "unstable" ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was "average apparent resistivity" and a default inversion setting of "surface," with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

Note: Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All resistivity field work, including setup, stow, and travel, was completed by Michael Jones, Britt Bommer, and Ryan Palmer on February 4, 2026.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features located within the 200-foot (61-meter)[1] survey area surrounding the spill delineation boundary (**Figure 6**).

No springs exist within the 305-meter (1,000-foot)[1] survey boundary (**Figure 6**).

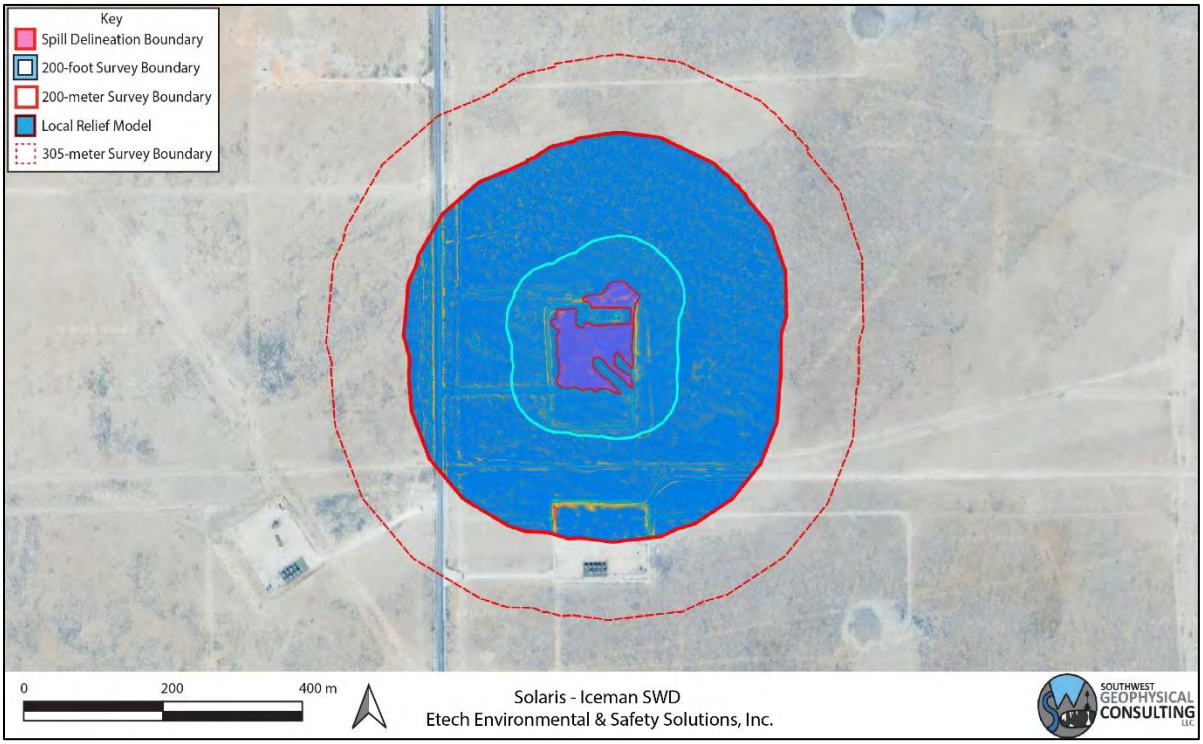


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: March 22, 2025. Image datum: WGS-84.

The lack of surface karst features does not mean the area is not karstified and the survey area may still contain buried karst features. Caution should be exercised while clearing brush and during any excavation, drilling, or construction operations. Employing a BLM-CFO approved karst monitor on site during these operations should be considered.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with resistivities between 6.1 and 2,002 Ohm-m. A high-resistivity anomaly (100,000 Ohm-m) is located underneath electrode 41 of line ICMS01. However, this anomaly is determined to be associated with an electrode issue or edge noise (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

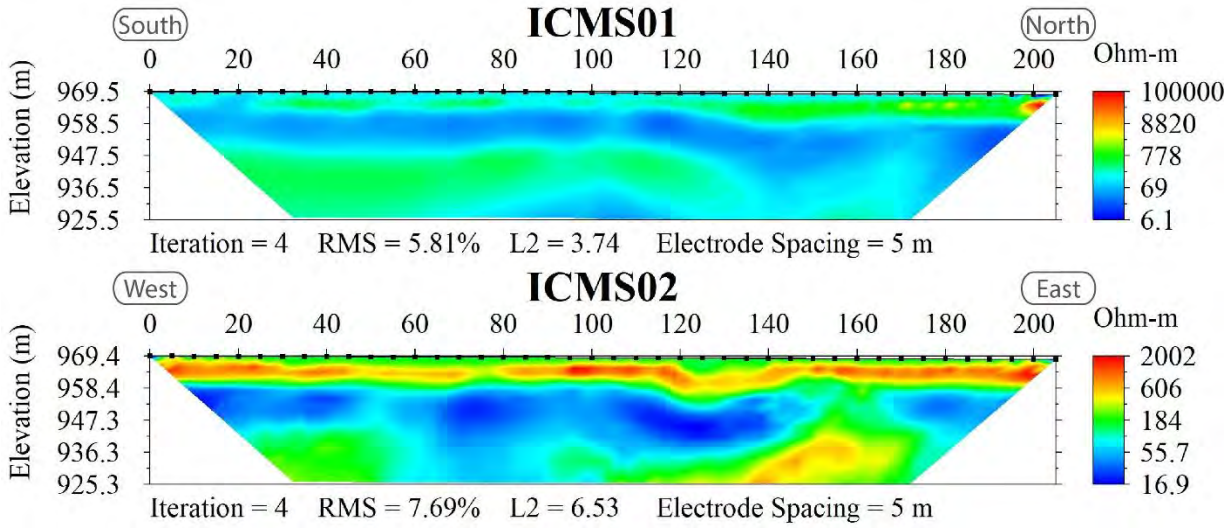


Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

No surface karst features were located within 200 meters of the spill delineation boundary.

No anomalies consistent with air-filled subsurface voids were found within the ICMS geophysical survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Areas of higher resistivity (reds, yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation[17] (**Figure 7** and **Figure 8**). Low-resistivity areas between 6.1 – 20 Ohm-m may a layer of either clays and halite lenses or moist to saturated layers within the Rustler Formation (**Figure 7**).

One high-resistivity anomaly is located underneath electrode 41 of line ICMS01. However, it is determined to be associated with an electrode issue or line edge noise. It is not interpreted to represent a real geologic feature.

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

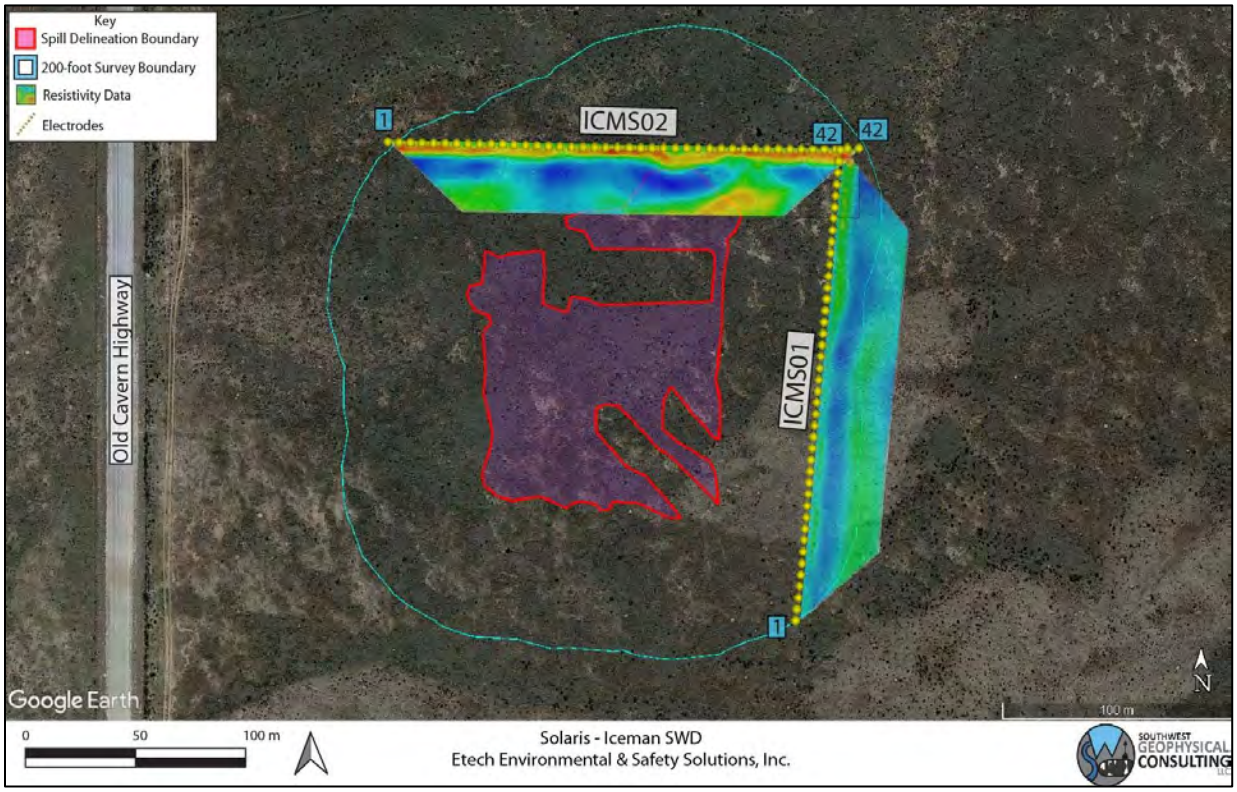


Figure 8: Data overlay. Colored trapezoids are the 2D inverted resistivity lines. Background image credit: Google Earth. Image date: March 22, 2025.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5–3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

5.0 SUMMARY

- **The ICMS survey contains no surface karst features within 200 feet (61 meters) of the remediation boundary.**
- No surface karst feature exists within the 200-meter survey boundary, and no springs are noted within the 305-meter survey boundary.
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the geophysical survey lines, indicating stable ground in the area of the subsurface investigation.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

1 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).

2 NMSLO. (ed Oil Conservation Division) (New Mexico State Land Office, Santa Fe, NM, 2018).

3 Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).

4 Goodbar, J. R. Vol. BLM Management Handbook H-8380-1 (ed Carlsbad Field Office) 59 (Bureau of Land Management, Denver, CO, 2015).

5 Decker, D., Trautner, E. & Palmer, R. (Bureau of Land Management - Carlsbad Field Office, 2025).

6 Earthpoint. *Earthpoint Tools for Google Earth*, <https://www.earthpoint.us/Townships.aspx> (2022).

7 Decker, D. D., Land, L. & Luke, B. Characterization of Playa Lakes in the Gypsum Karst of Southeastern New Mexico and West Texas, USA. *Oklahoma Geological Survey Circular 113* **113** (2021).

8 W.R.C.C. *National Climate Data Center 1981-2010 Normal Climate Summary for Carlsbad, New Mexico (291469)*, 2010).

9 Whitehead, W. & Flynn, C. *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology*. (Bureau of Land Management, Carlsbad Field Office, 2017).

10 NMSLO. Digital overlay (KML) of the surface land ownership in New Mexico (New Mexico State Land Office, Santa Fe, NM, 2024).

11 Green, G. N. & Jones, G. E. *The Digital Geologic Map of New Mexico in ARC/INFO Format*, <https://mrdata.usgs.gov/geology/state/state.php?state=NM> (1997).

12 Austin, G. S. *Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas*. Vol. Circular 159 (New Mexico Bureau of Mines and Mineral Resources, 1978).

13 Johnson, K. S. Evaporite Karst in the United States. *Carbonates and Evaporites* **12**, 2-14 (1997).

14 Scholle, P. A. Geologic Map of New Mexico. (2003).

15 Decker, D. D., Jorgensen, G. L. & Palmer, R. in *Southwest Geophysical Cave and Karst Database* (ed LLC Southwest Geophysical Consulting) (Albuquerque, NM, 2025).

16 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).

17 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).

8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω-m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation
Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the

	field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed, "meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG
Chief Executive Officer, Principal Geologist
Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
dave@swgeophys.com
(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ETEC-032-20260127 entitled, “Environmental Karst Study Report, Solaris - Iceman SWD, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section ***2.3 Description of Survey***.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, February 28, 2026.

David D. Decker
PhD, CPG-12123



APPENDIX C

Depth to Water Determination Soil Boring Log

P.O. Box 62228 Midland . TX . 79711 . Tel: 432-563-2200 . Fax: 432-563-2213

Received by OCD: 6/1/2026 3:55:55 PM

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04825 POD1	SE	SW	SW	17	23S	27E	573590.7	3573797.3	🌎

*** UTM location was derived from PLSS - see Help**

Driller License:	1862	**Driller Company:**	H&R ENTERPRISES, LLC		
Driller Name:	HAWLEY, JAMES CODYELALL OFF				
Drill Start Date:	2024-09-09	**Drill Finish Date:**	2024-09-09	**Plug Date:**	2024-09-25
Log File Date:	2025-04-21	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.00	**Depth Well:**	105	**Depth Water:**	

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Contact Us | Help | Home |

Released to Imaging: 6/2/2026 11:27:44 AM

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): Pod 1	WELL TAG ID NO.	OSE FILE NO(S.): C-4825
WELL OWNER NAME(S): Solaris Water Midstream		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS: 3300 N A Street		CITY: Midland STATE: TX ZIP: 79705

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	17	54.8	N
LONGITUDE	104	13	06.1	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE: S17 T23s R27e

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1862	James Hawley	H&R Enterprises, LLC

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
9-9-24	9-9-24	105'	105'	N/A

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 9-25-24

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0'	105'	5'	No casing left in hole				

OSE DII ROSWELL NM
21 APR '25 AM8:25

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4825	POD NO. POD1	TRN NO. 758526
LOCATION 23S 27E 17 433	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0'	10'	10'	Sandy Gravel	Y ✓ N	
10'	25'	15'	Sand	Y ✓ N	
25'	60'	35'	Gypsum	Y ✓ N	
60'	65'	5'	Sandy Gypsum	Y ✓ N	
65'	75'	10'	Sandy Brown Clay	Y ✓ N	
75'	95'	20'	Brown Clay	Y ✓ N	
95'	105'	10'	Red Clay	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☑ OTHER – SPECIFY: DTGW Bore

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Depth to groundwater bore was gauged for water on 9-25-24. DTGW bore was dry. Temporary well casing was removed, bore hole was backfilled with drill cuttings to 10' BGS. Hydrated bentonite hole plug was poured from 10' BGS to surface.

OSE DII ROSWELL NM
21 APR '25 AM8:25

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Nathan Smelcer

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

James Hawley — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

4-16-25 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4825	POD NO. POD1	TRN NO. 758520	
LOCATION 23S 27E 17 433		WELL TAG ID NO. —	PAGE 2 OF 2

JHawley@H-R-Enterprises.com
PO Box 3641, Hobbs NM 88240
Office: 575-964-8686 Cell: 575-605-3471

Attn: NMOSE

Date: 4/16/25

To whom it may concern; The attached well log and plugging record slipped through the cracks somehow, we drilled GWDB C-4825 Pod 1 on 9/9/24 and plugged the wellbore on 9/25/24. The log and plugging record should have been submitted to you by 10/9/24, but somehow we missed this one. There were 4 other pods associated with this permit, C-4825 Pod 2, C-4825 Pod 3, C-4825 Pod 4, and C-4825 pod 5, these were drilled for the purpose of finding the vertical extent of the contamination, all four bores were drilled to a depth of 5 feet BGS due to there being no contamination deeper than that depth. If needed we can fill out well logs and plugging reports on these four pods, feel free to call or E-mail me if you have any questions, thanks.

James Hawley, WD-1862

Owner, H&R Enterprises LLC

OSE DII ROSWELL NM
21 APR '25 AM8:25



For the best experience, open this PDF portfolio in Acrobat X or Adobe Reader X, or later.

Get Adobe Reader Now!

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9950 WOODLOCH FOREST DR THE WOODLANDS, TX 77380	OGRID: 371643
	Action Number: 590626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2305350943**
Incident Name	**NAPP2305350943 ICEMAN SWD @ M-17-23S-27E 600N 600E**
Incident Type	**Produced Water Release**
Incident Status	**Deferral Request Received**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	ICEMAN SWD
Date Release Discovered	02/21/2023
Surface Owner	State

Incident Details *Please answer all the questions in this group.*	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Tank (Any) | Produced Water | Released: 1,950 BBL | Recovered: 1,890 BBL | Lost: 60 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9950 WOODLOCH FOREST DR THE WOODLANDS, TX 77380	OGRID: 371643
	Action Number: 590626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Matthew Green Title: Environmental Advisor Email: Matthew.Green@westernmidstream.com Date: 06/01/2026

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9950 WOODLOCH FOREST DR THE WOODLANDS, TX 77380	OGRID: 371643
	Action Number: 590626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	16000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1480
GRO+DRO (EPA SW-846 Method 8015M)	1480
BTEX (EPA SW-846 Method 8021B or 8260B)	0.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0.6
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	11/21/2024
On what date will (or did) the final sampling or liner inspection occur	01/31/2025
On what date will (or was) the remediation complete(d)	03/05/2025
What is the estimated surface area (in square feet) that will be reclaimed	13264
What is the estimated volume (in cubic yards) that will be reclaimed	1965
What is the estimated surface area (in square feet) that will be remediated	83600
What is the estimated volume (in cubic yards) that will be remediated	9361
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9950 WOODLOCH FOREST DR THE WOODLANDS, TX 77380	OGRID: 371643
	Action Number: 590626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	*Not answered.*
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Matthew Green Title: Environmental Advisor Email: Matthew.Green@westernmidstream.com Date: 06/01/2026
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9950 WOODLOCH FOREST DR THE WOODLANDS, TX 77380	OGRID: 371643
	Action Number: 590626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Wellhead and flowline riser. Removal soil surrounding the wellhead will be done at time of plug and abandonment due to the site being an active SWD and the risk of removing the soil could cause lose support or could lead to damage to the wellhead. The soil under neither flowline riser can not be removed without leading to a possible failure of the riser.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1000
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	148
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	*Not answered.*
Enter the well API (30-) on which this deferral should be granted	30-015-44265 ICEMAN STATE SWD #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Matthew Green Title: Environmental Advisor Email: Matthew.Green@westernmidstream.com Date: 06/01/2026

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9950 WOODLOCH FOREST DR THE WOODLANDS, TX 77380	OGRID: 371643
	Action Number: 590626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**456198**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**05/01/2025**
What was the (estimated) number of samples that were to be gathered	**4**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9950 WOODLOCH FOREST DR THE WOODLANDS, TX 77380	OGRID: 371643
	Action Number: 590626
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Solaris Water Midstream's deferral requests final remediation for (Incident Number nAPP2305350943) until final reclamation of the well pad/facility or major construction, whichever comes first. ETech and Solaris Water Midstream do not believe deferment will result in imminent risk to human health, the environment, or groundwater. Solaris is requesting deferral of the areas associated with SW-15, SW-16, SW-38, SW-39, and SW-46 due to the proximity of the wellhead and the injection pumps, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	6/2/2026
rhamlet	The "Environmental Karst Study Report – Solaris Iceman SWD" will be accepted for record and placed in the incident files for future reference. The ICMS survey area contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary provided by the client. Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process. In New Mexico, karst surveys are generally valid for a period of three years due to the dynamic and unpredictable nature of karst areas.	6/2/2026